

### COMMONWEALTH of VIRGINIA

DEPARTMENT OF WASTE MANAGEMENT 11th Floor, Monroe Building 101 N. 14th Street Richmond, Va. 23219 ORIGINAL (Red)

PRELIMINARY ASSESSMENT

OF

TRANS-CIRCUITS

VA - 347

Submitted By:

Commonwealth of Virginia

Bureau of Solid Waste Management

December 22, 1986

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Bureau of Solid Waste Management

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#### 1.0 INTRODUCTION

#### 1.1 Site Location

The Trans-Circuits facility is located within an industrial complex at 3509 Carlyn Spring Road, Falls Church, Virginia (Figure 1), approximately 0.250RIGINAL miles (.4 km) south of Columbia Pike (S.R. 244). The site is situated within Fairfax County near the city of Alexandria and Arlington County limits. The site coordinates are 38°50'57" N., 77°07'28" W.(Alexandria, Virginia 7.5' topographic quadrangle).

#### 1.2 Site History

Trans-Circuits, Inc. began an electroplating operation on this site in 1964. The facility manufactured printed circuit boards for the Department of Defense and for commercial clients until operations ceased in November, 1985 and the facility was completely closed down in September, 1986.

Trans-Circuits obtained interium status under the Resource Conservation and Recovery Act (RCRA) on November 19, 1980. Interium status was terminated in October, 1984, and Trans-Circuits operated as a generator of hazardous waste until the facility closed.

Several allegations concerning the disposal of hazardous substances (wastes) have been levied against Trans-Circuits. There are allegations that questionable materials were sent to the Fairfax County Landfill on Interstate 66 on several occasions. Allegations concerning the release of hazardous substances (wastes) into the Fairfax County sewer line causing discoloration and corrosion have also been levied. However, no evidence has been received to ascertain the validity of these allegations. There have been no allegatons of on site disposal of hazardous substances.

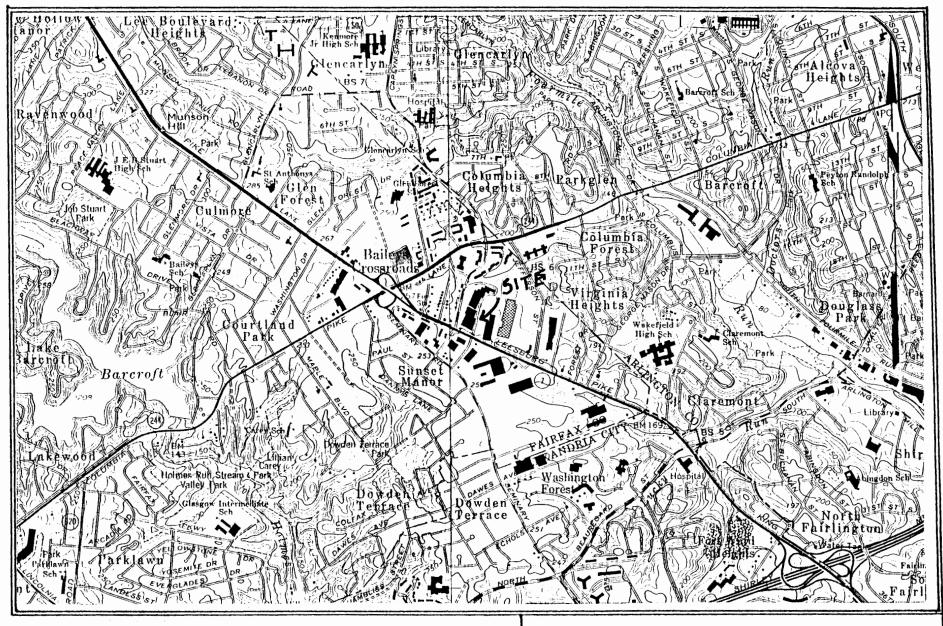
#### 2.0 DEMOGRAPHICS

#### 2.1 Population

The Trans-Circuits site is located in the city of Falls Church in Fairfax County, Virginia. The area of concern is a highly populated residential and light industrial area which includes the city of Falls Church, portions of the city of Alexandria, and portions of Fairfax and Arlington Counties. Based on 1980 census data, the population within a three-mile radius of the site is estimated to be 55,000.

#### 2.2 Climate

The site 1s located at elevation 255 feet (MSL). The average annual precipitation measured by the NOAA weather observatory at Dulles Airport is 40.35 inches (102.49 cm). The annual mean temperature is 53.8°F (12.1°C).



scale 1"=24000'



COMMONWEALTH of VIRGINIA

TRANS-CIRCUITS	, INC.	SITE	LOCAT10	ON PLAN	ORIGIN (Red)
DRAWN BY:	REVIEW	D:		DATE:	A

#### 2.3 Land Use

The Trans-Circuits facility is located within a highly populated area of northern Virginia. The area immediately surrounding and within a three-mile radius of the site is a combination of light industry, commercial property, and residences.

#### 3.0 SURFACE WATER

The Trans-Circuits site is located within a small industrial complex, and there are no surface water bodies immediately surrounding the site. Surface water runoff at the site is directed to the storm sewers that run along Carlyn Spring Road.

Lake Barcroft is located approximately one mile (1.6 km) southwest of the site. The lake was used as a source of water for the city of Alexandria until 1973, according to Mr. Jim Warfield, Fairfax County Water Authority.

Surface water is used as the primary source of domestic and industrial water for the counties of Fairfax and Arlington, and for the cities of Falls Church and Alexandria. However, all surface water that is used as a water source is located outside of the area of concern, and these water bodies are not hydraulically connected to the site.

#### 4.0 HYDROLOGY

#### 4.1 Geology

The Trans-Circuits site is located at the western boundary of the Coastal Plain Physiographic Province of Virginia in the Fall Zone. The Fall Zone is the transitional area where the crystalline rocks of the Piedmont are overlain by the eastward dipping sediments of the Coastal Plain. Sediments in the Fall Zone tend to be irregulary bedded and discontinuous because of channelization by streams during and following deposition. The Fall Zone is characterized by an abrupt change in land elevation. This difference in elevation is displayed in the topography and by the change in velocities of the streams and rivers.

The Trans-Circuits site is situated on muscovite and biotite granite gneiss and diorite of an undetermined geologic age. The bedrock is overlain by Cretaceous sands and clays and is capped by Recent sands and gravels.

#### 4.2 Groundwater

Groundwater storage and movement in the Fall Zone occurs in the saprolite overlying the basement rocks; the thin onlapping, undifferentiated Coastal Plain sediments; and the underlying basement rocks (Ellison,1979). The saprolite has hydrogeologic characteristics similar to unconsolidated sediments, but its permeability is considerably lower due to its non-transported nature and high clay content (Wigglesworth, 1984). The water-bearing capacity of the basement rocks depends upon the frequency and interconnection of the fractures. With depth, fractures decrease in frequency and size , and it is assumed that with depth, water-bearing fractures are rarely encountered.

Sediments and saprolite act as a recharge "sponge" slowly releasing water to the basement aquifer. The thickness of sediments and saprolite is usually directly related to the water-bearing capacity of the underlying rock.

No specific groundwater data is available for the Fall Zone portion of Fairfax County.

#### 5.0 WATER SUPPLY

The Trans-Circuits facility was served by the Fairfax County Water Authority as are all homes, industries, and commercial property within Fairfax County, according to Mr. Warfield. The Fairfax County Water Authority draws on the Occoquan Reservoir (Occoquan, Virginia 7.5' topographic quadrangle) and the Potomac River at the Loudoun-Fairfax County line for their water supply. According to Mr. Warfield, approximately two percent of the 200,000 residents of Fairfax County are served by private wells.

The city of Alexandria, according to Mr. Robert Iben, purchases water from Fairfax County to serve its residents and industrial needs. The city does have two wells which are located outside of the area of concern that are used during emergency conditions.

The city of Falls Church and Arlington County, according to Mr. Renn Nichols, purchase water from the U.S. Army Corps of Engineers. The source of the water is the Potomac River and the Dalecarlia Reservoir.

All surface water drawn upon as a domestic and industrial water supply is outside of the area of concern.

#### 6.0 Waste Type and Handling

Trans-Circuits, Inc. manufactured printed circuits boards. According to Mr. Stan Hynes of Trans-Circuits in Florida, the operations entailed electroplating, the finishing of metals, and the etching of circuit boards using acids.

Trans-Circuits obtained interium status under RCRA in November, 1980, but terminated status in October, 1984. Until the facility ceased to operate in September, 1986, the facility was categorized as a generator of hazardous waste under RCRA.

According to Mr. Bob Forman, Regional Consultant for the Virginia Department of Waste Management, an on site treatment facility was installed at Trans-Circuits in 1984. The treated water was then released to the county sewer line. There have been allegations that untreated waste water and chemicals were discharged directly into the sewer line causing corrosion and discoloration of the line. Evidence to substantiate the allegations of the release of hazardous substances (wastes) and chemicals into the county sewer line was sought by this Department, however, the County of Fairfax has not been forthcoming with the information. Subsequent attempts to obtain this information have been to no avail.

Allegations have also been levied that questionable materials were sent to the Fairfax County Landfill located on Interstate 66. Again, no evidence has been received to verify or negate the allegations.

#### 7.0 EXPOSURE ASSESSMENT

#### 7.1 Groundwater

The potential for the introduction of hazardous and harmful substances into the groundwater from the Trans-Circuits, Inc. site is low. The facility operated inside of an industrial building, and outside of the building, asphalt and concrete covered the area. Groundwater usage in the area is minimal, therefore, the potential for exposure through groundwater is also minimal.

#### 7.2 Surface Water

No surface water bodies are located in the area immediately surrounding the site. The Potomac River lies approximately five miles (8 km) east of the site, and Lake Barcroft is located approximately one mile (1.6 km) southwest of the Trans-Circuits site. Although surface water is the primary source of domestic and industrial water for the area of concern, the potential for contamination is low due to the directed surface water runoff from the site and Trans-Circuits' site relationship to important surface water bodies.

#### 7.3 Direct Contact

Operations at Trans-Circuits took place inside of an industrial building. It is unclear as to whether or not the treatment facility was also housed within the operations building. Therefore, the potential for the exposure to the general public was limited.

#### 7.4 Food Chain

There is a low potential for the introduction of harmful and hazardous substances into the animal and vegetable links of the food chain from this site.

#### 7.5 <u>Air</u>

There appears that no threat of air releases of pollutants existed at this site. The Air Pollution Control Board has no record of a permit or a registration of Trans-Circuits, Inc.

#### 8.0 FACILITY CLOSURE

Trans-Circuits, Inc. ceased their printed circuit board operations in November, 1985. The facility was completely shut down and all equipment was moved from their Carlyn Spring Road site in September, 1986.

Trans-Circuits contracted Eastern Chemical Waste Systems (ECWS) to assist in the cleanup of the operations building (Appendix B). ECWS sampled and analyzed 21 concrete cores taken from the floor in the operations building. The cores did not prove to be E.P. Toxic (Appendix C).

Specific information concerning the final evaluation of the contaminant levels of the floors in the operations building and the disposal of the floor is not known.

ECWS was also involved in the disposal of drummed wastes, labpacking and disposal of smaller containers of chemicals, and the disposal of bulk liquid waste from various tanks on the Trans-Circuits site (Appendix D).

ORIGINAL (Red)

#### REFERENCES

- Ellison, Russel P., III and Masiello, Remo A. Groundwater Resources of Hanover County, Virginia, State Water Control Board, Planning Bulletin 314, 1979.
- Wigglesworth, Haywood A., Perry, Timothy W., Ellison, Russel P., III, Groundwater Resources of Henrico County, Virginia, State Water Control Board, Planning Bulletin 328, 1984.

LMC:SF-233/dle

ORIGINAL (Red)

 $\begin{array}{c} & \text{Appendix A} \\ \\ \text{EPA Preliminary Assessment Forms} \end{array}$ 

ORIGINAL (Red)

# POTENTIAL HAZARDOUS WASTE SITE

	I. IDENT	IFICATION
i	01 STATE	02 SITE NUMBER
	VA	347

SEPA PART	PHELIMINAN SITE INFORMA			:NT	VA	347
	- SITE INFORMA	11011 71	- AGOEGOINE			
II. SITE NAME AND LOCATION  O1 SITE NAME (Legal, common, or descriptive name of arte)	<del></del>	LOS CYPES	T BOUTENO OR	SPECIFIC LOCATION IDE	NTIEIER	ORIGINAL
Trans-Circuits, Inc.		1		Spring Road		(Red)
Falls Church		04 STATE	22011	Fairfax		07 COUNTY 08 CONG CODE DIST
09 COORDINATES LATITUDE 38 50'57" N. 77"	NGITUDE 28" W.	ÁL	exandria i	1.5' topogra	phic	quadrangle
Facility is located off of Ro Columbia Pike (State Route 24	oute 1, appr 44).	1				
III. RESPONSIBLE PARTIES						
01 OWNER (# known)		02 STREE	T (Business, manny, res	sidential)		
Hardin Corporation		640	O Arlingto	on Blvd.		
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHONE NUM	BER	[
Falls Church		VA	22046	(703) 241-3	290	
07 OPERATOR (If known and different from owner)	•	08 STREE	T (Business, maining, res	ucential)		
facility is closed						
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUM	IBER	
		1		( )		
13 TYPE OF OWNERSHIP (Check one)				<u> </u>		
XXA. PRIVATE D B. FEDERAL:			C. STATE	DD.COUNTY (	D E. MUN	NICIPAL
□ F. OTHER:	(Agency name)		_ G. UNKNO	)WN		
(Soeci	(y)		d. ONKIN	J		
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)  \[ \infty \] A. RCRA 3001 DATE RECEIVED: \[ \frac{11}{MONTH} \] DAY YEAR	☐ B. UNCONTROLL	LED WAST	E SITE (CERCLA 103	DATE RECEIVED:	MONTH DA	/ C. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD						
EXYES DATE 10,07,86 □ A.	eck of that apply) EPA B. EP/ LOCAL HEALTH OFF	A CONTRA	CTOR ZX			CONTRACTOR
	TRACTOR NAME(S):			(Spec	<b>my</b> )	
02 SITE STATUS (Check one)	03 YEARS OF OPER					
□ A. ACTIVE Š <sup>X</sup> B. INACTIVE □ C. UNKNOWN		1964 SEGINNING YE			NKNOWN	l
Spent solvents, electroplating 9066 chromic etch, copper switchem Lac 4100, ammonium perso	g sludges, i lfate, sulfi	vric a	cid, liqu	id caustic s	oda,	HCL, Dyna-
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND	O/OR POPULATION					
Potential Fairfax County sew	er line con	tamina	tion.			
V. PRIORITY ASSESSMENT						
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked.	complete Part 2 - Waste Infor	melion and Par	3 - Description of Hazar	rdous Conditions and incidents	,	
☐ A. HIGH ☐ B. MEDIUM (Inspection required promotily) (Inspection required)	C. LOW (MEDICAL ON TIME		EXD. NONE	r action needed, complete cur		ion form)
VI. INFORMATION AVAILABLE FROM						
OI CONTACT P.M. Ewald	Department		aste Manag	gement		03 TELEPHONE NUMBER (804) 225–2667
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGA	NIZATION	07 TELEPHONE NUM	ABER	08 DATE
L.M. Clark	<b>D</b> WM	Sun	erkund	804-225-		10 07 , 86

# SEPA

#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENT	TEICATION	
01 STATE	02 SITE NUMBER 347	

II. WASTES	TATES, QUANTITIES, AN	D CHARACTER	ISTICS						
01 PHYSICAL S	YSICAL STATES (Check as min apply) 02 WASTE QUANTITY AT SITE 03 WAS (Measures of waste quantities				3 WASTE CHARACTERISTICS (Creck and Inch apply) ORIGINAL				
DA SOUD D B. POWDE D C. SLUDG	Ø E. SLURRY ER, FINES Ø F. LIQUID E □ G. GAS		74000 kg_	Ø A. TOXIC Ø B. CORRO ☐ C. RADIOA ☐ D. PERSIS	CTIVE 12 G. FLAN	MABLE LI K. REACT	IVE PATIBLE		
L) D. OTHER	(Specify)	NO. OF DRUMS	<del></del>				LONGE		
III. WASTE T	YPE								
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	1				
SLU	SLUDGE				unknown qu	iantities			
OLW	OILY WASTE								
SOL	SOLVENTS				unknown at	uantities			
PSD	PESTICIDES								
осс	OTHER ORGANIC CH	IEMICALS			•		,		
IOC	INORGANIC CHEMIC	ALS		,					
ACD	ACIDS				unknown qu	iantities			
BAS	BASES				unknown qu	iantities			
MES	HEAVY METALS				unknown ou	uantities			
IV. HAZARD	OUS SUBSTANCES (See A)	opendiz for most frequent	ty caed CAS Numbers)						
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION		
ACD	Hydrochloric a	acid	7647-01-0						
ACD	Sulfuric acid		7664-93-9				,		
BAS	Sodium hydrox	ide	1310-73-2						
SOL	Methulene oxio	de	50-00-0						
SOL	toluene		108-88-3						
SOL	Methyl ethyl I	retone	78-93-3						
SOL	Xylene		1330-20-7			1			
10C	Sodium cuanido	2	143-33-9						
SOL ma	thulene chloric	1e	75-09-2						
SOL	Ethyl acetate		141-78-6						
SOL	1,1,1 trochlor		25323-89-1						
SOL	trichloroethy	Lene	79-01-6						
SOL	acetone								
	CEE ATTA	שבאה האכב					ļ		
	SEE ATTAC	TILV PAGE							
V 555050	040	<del></del>							
CATEGORY	CKS ISee Appendix for CAS Number	·	02 CAS NUMBER	CATEGORY	01 FEEDST(	OCK NAME	02 CAS NUMBER		
FDS	02201001		SE GRO HOMOE!	FDS	31.223010		22 0.10 .10		
FDS				FDS		<del>-</del>			
FDS				FDS					
FDS				FDS					
VI. SOURCES	OF INFORMATION (CAN A	pecific references, e.g.,	state (Nes, samore enerysis, re	pons j	· · · · · · · · · · · · · · · · · · ·				
	files, site vis				ts, Inc.				

#### Recyclable Chemicals:

Alkaline Etchants MacDermid 9066 Chromic Etch Copper Sulphate-Manufactured Product ORIGINAL (Red)

#### Chemicals In Returnable Containers:

Sulfuric Acid 66 Degrees Hunt Finishing Solution
Liquid Caustic Soda Hunt 12N Starter
HCL Triple rinsed and split apart to
sanitary land fill.

#### Chemicals in containers:

Ammonium Persulfate Flourboric Acid Metal Drum Dynachem 160 MacDermid neutralizer 9080 Plastic Dynachem Predip Conditioner 101 Activator Bassic Bassa
Dynachem 160  MacDermid neutralizer 9080  Plastic Dynachem Predip  Conditioner 101  Activator  825R  Plastic  825A  Plastic  825B  SAA  Plastic  AA  Plastic  Nickle Sulfamate Containers  Plastic  Cubath HY-M  Plastic  Calcium Chloride
MacDermid neutralizer 9080  Dynachem Predip  Conditioner 101  Activator  825R  Plastic  825A  Plastic  825B  Plastic  Activator  825B  Plastic  Nickle Sulfamate Containers  Plastic  Plastic  Cubath HY-M  Plastic  Calcium Chloride
MacDermid neutralizer 9080  Dynachem Predip  Conditioner 101  Activator  825R  Plastic  825A  Plastic  825B  Plastic  Activator  Plastic  Color Replenishing  Plastic  Calcium Chloride
Dynachem Predip  " Conditioner 101 Plastic " Activator Plastic " 825R Plastic " 825A Plastic " 825B Plastic " SA A Plastic " SA B Plastic " 99A Plastic " 400K Stripper Plastic Electro Strip Plastic Nickle Sulfamate Containers Plastic LPC Replenishing Plastic Cubath HY-M Plastic Calcium Chloride
" Conditioner 101 Plastic " Activator Plastic " 825R Plastic " 825A Plastic " 825B Plastic " SA A Plastic " SA B Plastic " 99A Plastic " 400K Stripper Plastic Electro Strip Plastic Nickle Sulfamate Containers Plastic LPC Replenishing Plastic Cubath HY-M Plastic Calcium Chloride
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" 825A Plastic " 825B Plastic " SA A Plastic " SA B Plastic " 99A Plastic " 400K Stripper Plastic Electro Strip Plastic Nickle Sulfamate Containers Plastic LPC Replenishing Plastic Cubath HY-M Plastic Calcium Chloride Paper
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" SA B Plastic " 99A Plastic " 400K Stripper Plastic Electro Strip Plastic Nickle Sulfamate Containers Plastic LPC Replenishing Plastic Cubath HY-M Plastic Calcium Chloride Paper
" SAB Plastic " 99A Plastic " 400K Stripper Plastic Electro Strip Plastic Nickle Sulfamate Containers Plastic LPC Replenishing Plastic Cubath HY-M Plastic Calcium Chloride Paper
" 400K Stripper Plastic Electro Strip Plastic Nickle Sulfamate Containers Plastic LPC Replenishing Plastic Cubath HY-M Plastic Calcium Chloride Paper
Electro Strip Nickle Sulfamate Containers LPC Replenishing Cubath HY-M Calcium Chloride  Plastic Plastic Paper
Electro Strip  Nickle Sulfamate Containers  LPC Replenishing Cubath HY-M  Calcium Chloride  Plastic Plastic Plastic Paper
LPC Replenishing Plastic Cubath HY-M Plastic Calcium Chloride Paper
Cubath HY-M Plastic Calcium Chloride Paper
Calcium Chloride Paper
-
Sodium Hydrosulfite Metal
Harshaw CX-A Plastic
Harshaw CX-B Plastic
Inland Chemical AP-624 Plastic
Stanous Fluoborate Metal
Lead Fluoborate Plastic
HL-21 Plastic

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#### Chemicals in containers continued:

ORIGINAL (Red)

SN/PB 2000	Plastic
Cu 545 Flux	Plastic
CO-BA-Sol	Plastic
Nitric Acid	Glass
HCL	Glass
Ammonium Hydroxide	Glass
Boric Acid	Paper
Liquid Alkaline Strip 143	Plastic
Lectro 1003 Wetting Agent	Plastic
Lectro Nic Anode activator	Plastic
Ammonium Chloride	Paper

Chemical Containers used to ship Electroplating Sludge:

Inland Chemical AP-80 Defoamer #2 Screen Wash 512 Haviland Pre-up C

## SEPA

#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

VA 347

IL HAZARDOUS CONDITIONS AND INCIDENTS  01	PART 3 - DESCRIPTION OF	HAZARDOUS CONDITIONS AND INCID	ENTS VA	341
ALLEGED		THE ATTENDED TO STATE OF THE ATTENDED		
ORIGINAL (Red)  ORIGINAL (Red)				
OI OBSERVED (DATE	01   A. GROUNDWATER CONTAMINATION  O3 POPULATION POTENTIALLY AFFECTED:		) DOTENTIAL	☐ ALLEGED
OIDE SURFACE WATER CONTAMNATION O3 POPULATION POTENTIALLY AFFECTED:  O4 NARRATIVE DESCRIPTION  O5 POPULATION POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION  O5 POPULATION POTENTIALLY AFFECTED: O5 POPULATION POTENTIALLY AFFECTED: O6 NARRATIVE DESCRIPTION  O7 OBSERVED (DATE: O7 OB	None expected			ORIGINAL
O4 NARRATIVE DESCRIPTION  None expected  O1   C. CONTAMINATION OF AR O2   OBSERVED (DATE   )   POTENTIAL   ALLEGED  O3 POPULATION POTENTIALLY AFFECTED   O4 NARRATIVE DESCRIPTION  None reported  O1   D. FIRBIEXPLOSME CONDITIONS   O2   OBSERVED (DATE   )   POTENTIAL   ALLEGED  O3 POPULATION POTENTIALLY AFFECTED   O4 NARRATIVE DESCRIPTION  Facility is abandoned. Potential may have existed.  O1   D. DIRBIEXPLOSME CONDITIONS   O2   OBSERVED (DATE   )   POTENTIAL   ALLEGED  O3 POPULATION POTENTIALLY AFFECTED   O4 NARRATIVE DESCRIPTION  None expected  O1   F. CONTAMINATION OF SOIL   O4 NARRATIVE DESCRIPTION   POTENTIAL   ALLEGED  O3 AFEA POTENTIALLY AFFECTED   O4 NARRATIVE DESCRIPTION   POTENTIAL   ALLEGED  O1   G. DRINKING WATER CONTAMINATION   O4 NARRATIVE DESCRIPTION   POTENTIAL   ALLEGED  O1   G. DRINKING WATER CONTAMINATION   O4 NARRATIVE DESCRIPTION   POTENTIAL   ALLEGED  O1   G. DRINKING WATER CONTAMINATION   O4 NARRATIVE DESCRIPTION   POTENTIAL   ALLEGED  O1   H. WORKER EXPOSUREBALISTY   O4 NARRATIVE DESCRIPTION   POTENTIAL   ALLEGED  O1   H. WORKER EXPOSUREBALISTY   O4 NARRATIVE DESCRIPTION   ALLEGED  O1   D. WORKER EXPOSUREBALISTY   O4 NARRATIVE DESCRIPTION   ALLEGED  O1   D. POPULATION EXPOSUREBALISTY   O4 NARRATIVE DESCRIPTION   ALLEGED  O1   D. POPULATION EXPOSUREBALISTY   O4 NARRATIVE DESCRIPTION   ALLEGED				(Red)
O3 POPULATION POTENTIALLY AFFECTED:  O1   C. CONTAMINATION OF AIR O3 POPULATION POTENTIALLY AFFECTED  O2   OBSERVED (DATE	01 □ R SUBFACE WATER CONTAMINATION	02 OBSERVED (DATE:	.) DPOTENTIAL	☐ ALLEGED
01   C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION  None reported  01   D. Firelexplosive conditions 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION  05   D. E. DIRECT CONTACT 05   POTENTIAL 05   POTENTIAL 06 NARRATIVE DESCRIPTION  None expected  01   F. CONTAMINATION OF SOR. 05 AREA POTENTIALLY AFFECTED: 06 NARRATIVE DESCRIPTION  None expected  01   G. DRINKING WATER CONTAMINATION 06 POPULATION POTENTIALLY AFFECTED: 07 NARRATIVE DESCRIPTION  None expected  08   POTENTIAL 09   POTENTIAL 09		_ 04 NARRATIVE DESCRIPTION		
01   C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED 04 NARRATIVE DESCRIPTION  None reported  01   D. Firelexplosive conditions 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION  05   D. E. DIRECT CONTACT 05   POTENTIAL 05   POTENTIAL 06 NARRATIVE DESCRIPTION  None expected  01   F. CONTAMINATION OF SOR. 05 AREA POTENTIALLY AFFECTED: 06 NARRATIVE DESCRIPTION  None expected  01   G. DRINKING WATER CONTAMINATION 06 POPULATION POTENTIALLY AFFECTED: 07 NARRATIVE DESCRIPTION  None expected  08   POTENTIAL 09   POTENTIAL 09	Name expected			
O4 NARRATIVE DESCRIPTION  None reported  O1	None expected			
None reported  O1 □ D. FIREJEXPLOSIVE CONDITIONS O2 □ OBSERVED (DATE:			) DPOTENTIAL	□ ALLEGED
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None reported		_ 04 NARRATIVE DESCRIPTION		
	None reported			

### **SEPA**

### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

L IDENT	TFICATION
01 STATE	02 SITE NUMBER
1 178	3.17

	NART ASSESSMENT ZARDOUS CONDITIONS AND INCIDENT	s VA	347
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	ORIGINAL
None expected or reported			(Red)
01   K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of space(s)	02 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
None expected or reported		•	
01  L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
None expected		: 	•
01 M. UNSTABLE CONTAINMENT OF WASTES (Spiles/unoff/standing sounds/leating drums) 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	Ď ALLEGED
Allegations that questionable mate fill on Interstate 66.	rials had been sent to the	Fairfax Cour	ıty Land-
01 N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
None expected or reported			
01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP8 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	C ALLEGED
Allegations that releases of Hazard charged directly into the sewer li			
01 P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
None expected or reported			
·			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS		
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
•			
V. SOURCES OF INFORMATION (Cite appeals) references, e.g., state fiee,	sambia anevess, reportsi		
State files, site visit, Mr. Stan H Consultant for Bureau of Solid Was		Bob Forman-	· Regional

#### FIELD TRIP SUMMARY REPORT

This summary should be prepared in conjunct Form 2070-12.	ion with the Pr	reliminary Assess	ment, EPA
EPA Case Number VA-347	Site Name Tro	ans-Circuits, Inc	ORIGINAL
LIA Case Namber VA-347			(Red)
Site Description			
Trans-Circuits, Inc. occupied two sections The building was secured. The floors were is covered with asphalt and concrete.	of an industr tiled. The c	ial complex in Fa area outside of t	lls Church. he building
	T		
Area of site (acres)		rtion, if not ent	ire site
2	unknoi	wn	
Description of processes/operations which			
Manufacturer of printed circuit boards for clients.	. Department of	Defense and comm	percial
	•		
	•		
Waste handling/disposal practices			
Trans-Circuits was regulated under RCRA as	a generator o	f hazardous waste	•
Site topography and runoff drainage pathway	JS		
		tu ktahm kowoh	
Surface water runoff from the site is dire	cheu to a coun	ng shorum sever.	
Surface or subsurface drainage areas (leach	nate) noted?	Odors/stains no	oted?
None		Stressed vegeta	tion noted?
		none	
Location and description of streams or rece flow direction and observations. Note loca			Include
There are no streams in the immediate area	ı surrounding t	the site.	•
La contraction of the contractio			
Monitoring wells on site or in vicinity. N	ote location o	on attached map.	
None			

Population within 1/4 mile of site:	Population within 1 mile of si	.te:			
□ 0-10	□ 0-10				
10-100	□ 10-100 □ 100-1000				
©greater than 100	greater than 1000	ORIGINAL (Red)			
Surrounding land use (woodlot, agricultural, recreation, industrial, etc.)					
NORTH	EAST				
industrial	commercial				
SOUTH	WEST				
industrial	residential				
Municipal water supply within 3-mile radius (note use of surface water and/or wells)					
The area of concern includes the city of Fall Alexandria, and portions of Fairfax and Ard by surface water bodies located outside of	lington Counties. All areas ar				
Reference:					
Domestic wells. Approximate number within $\frac{1}{4}$ mile: List nearest downgradient wells below and show locations on attached map.					
Owner/Resident Add	ress Phon	e			
-	1				
Groundwater flow direction, if known					
Not known					
Description of odor/taste problems	•				
State inspection activity (including permit	is neid)				
Facility terminated interium status with RCRA in October, 1984.					
State/Federal/Private remedial activities		·			
GZA Armac-during closure of the facility Eastern Chemical Waste Systems-during closure of the facility					

Additional comments-Further description of site
---

ORIGINAL (Red)

	<del></del>	
Logan Sturgeon	Hardin Corporation	703-241-3290
Scott Whitney	attorney-Hardin Corp.	703-841-2620
		,

INSPECTI	ON INFORMATION		
Name and	title of inspector(s) K.L	. Nuckols-geologist, L.M.	Clark-geologist
Agency _	Superfund	Phone number	(804)225-2667
Date	October 7, 1986	Time on site	4:00-5:30 p.m.
Weather	conditions: Clear and 70°	F .	

#### ATTACHMENTS

- o Topographic map identifying site location. Include name of quadrangle map.
- o Site sketch map showing location of monitoring wells, domestic wells, municipal water supplies, and areas of concern (lagoons, leachate seeps, drums, etc.)
- o Any available sampling results or state monitoring data with map showing sample locations.

Appendix B
Correspondence



#### EASTERN CHEMICAL WASTE SYSTEMS

management of environmental preservation 1M

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only: 2619 Evarts Street, N.E. Washington, D.C. 20018

November 7, 1986



Ms. Lisa Clark
SuperFund
VA Department of Waste
Management
11th Foor, Monroe Building
101 North Fourteenth Street
Richmond, VA 23219



Dear Lisa:

Enclosed are photocopies of materials from our Transcircuits closure cleanup file. As I mentioned on the phone ECWS was originally contracted to handle the complete cleanup. In actuality however we performed only the following tasks:

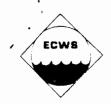
- o Disposal of drummed wastes
- Labpacking and disposal of smaller containers of chemicals
- o Disposal of bulk liquid waste from various tanks
- o Sampling and analysis of core samples from 21 spots on the concrete pad.

ECWS was not involved in the final evaluation of contamination levels of the floors or pad nor in the disposal of concrete from the pad.

I have enclosed:

o Manifest copies from our shipments after Transcircuits ceased operation.

Toll Free: 1-800-826-0518	Main Office in DC: (202) 636-9555	_		
New York Office: (212) 242-3349	Pittsburgh Office: (412) 941-1229			
Elizabeth, NJ: (201) 352-6550	Baltimore, MD: (301) 625-2500			
Eastern Chemical Waste Systems is a division of TSCGI				



Ms. Lisa Clark November 7, 1986 Page Two

- o Correspondence between ECWS and Transitron Electronics about the concrete pad and floors ORIGINAL (Red)
- o Analytical results on the concrete pad.

Most other correspondence involved only contract administration and should be uninteresting to the EPA. I would be happy to release all such correspondence upon request.

Sincerely,

Norb Dickmann, chemist Chemical Consultant to Sales

cc: Mark V. Soresi, President, ECWS-HQ

EAPO.ND:nj4



### COMMONWEALTH of VIRGINIA

DEPARTMENT OF WASTE MANAGEMENT 11th Floor, Monroe Building 101 N. 14th Street Richmond, Va. 23219 ORIGINAL (Red)

Norb Dickmann, Chemical Consultant Eastern Chemical Waste Systems 1101 14th Street Northwest Suite 620 Washington, D.C. 20005

OCT 1 6 1986



Dear Mr. Dickmann:

Per your request during our telephone conversation on 9 October, 1986, this letter serves as a formal request for information concerning Eastern Chemical Waste Systems activities at the Trans-Circuits, Inc. facility, 3509 Carlyn Spring Road, Falls Church, Virginia.

The Commonwealth of Virginia is operating under a cooperative agreement, 104 (b)(d) Grant, with USEPA Region III for pre-remedial activities in the state of Virginia. With the enactment of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, Section 103 (c), the USEPA and/or the Commonwealth of Virginia has the legal authority to request information concerning any activities at/on facilities dealing with hazardous substances. Under Section 103 (c) your company has the legal obligation to notify USEPA and the Commonwealth of "any known, suspected, or likely releases" of hazardous substances from this or any other facility.

In order to generate a complete Preliminary Assessment report for the Commonwealth and USEPA, I will need the following information:

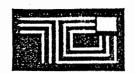
- Site plan
- Eastern Chemical Waste Systems requested participation and extent of participation in the facility closure by Trans-Circuits, Inc.
- Samples analyses of soil and concrete
- Findings of activities on site

If you have any questions concerning this matter or any other matter, please feel free to call me (804) 225-2667.

Sincerely,

Lisa Marie Clark

Superfund



### TRANS/CIRCUITS, Inc.

P.O. BOX 8248 • 3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405 TWX: 710-831-0637

September 6, 1985

Mr. Jimmie D. Jenkins Industrial Waste Section Lower Potomac Pollution Control Plant P.O. Box 268 Lorton, VA 22079

Dear Mr. Jenkins,

The monitoring report for August 1985 is enclosed per your request.

As requested by Ms. Schaeffer in her letter of August 15, 1985 we have started weekly laboratory analysis by an outside laboratory to comply with the monitoring requirements of our discharge permit until we can complete our EPA certification testing.

We will continue to supply our daily results but the analysis by Lapteff Associates will be our official submission to the requirements.

Lapteff Sample A was sampled on August 23. The sample S-A is the same August 23 sample with 2 mg/l copper, 1 mg/l chromium and 2 mg/l nickel added to it.

During the weekend of August 18, 19, 1985 we placed the new Lancy System on line. Your staff conducted a 4 day monitoring of its performance on August 26-29, 1985. We have sent samples to Lapteff Associates for each of these days and will supply their results as soon as they are recieved.

We are very pleased with the new systems results.

Sincerely wours,

Theodore A. Edwards Vice President Engineering



### TRANS/CIRCUITS, Inc.

P.O. BOX 8248 • 3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405 TWX: 710-831-0637

#### CERTIFICATION

I have personally examined and am familiar with the information submitted in the attached document, and I hereby certify under penalty of law that the information was obtained in accordance with the requirements of 40 CFR Section 403.12 and 40 CFR Part 136. Moreover, based upon by inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penaltties for submitting false information, including the possibility of fine and imprisonment.

Talast &1. Hotiby

Talaat El-Hotiby Supervisor, Chemical Process

Engineering

Ted Edwards

Vice President, Engineering

(iley)

OPERATOR: WITHOMAS. THURSDAY AUGUST 15,1885 1 STARTED WASTE TREATMENT SYSTEMS AT JAN 2. CLUBROD AND CAZEBRATED PH METERS 3. WASTING SUNGE From CURREFEER D. THE THECKOMER A THE FENEL EFFEREN MONERY WAS RESIDENG BRE PLUN OF 7% AT 7130 AFTER CALIBRATESHED OF THE PH MOTER AND A PH OF 2 BUT THE WAS NO FLOW, ATTEMPTED TO ALJUST THE O' ON THE FLOW RECORDER, BUT GOT SOME STRANGE REACTIONS FROM BOTH THE PH AND FLOW ROCOKDERS. HIGH HUMZDETTY INSEPT OF CONTROL PANT MAY BU HAWING SOME EFFECTON READINGS, 5, THE FINAL EFFLUNT REMAINS CLOVDY FUDAY HARD TIME TRYTHY TO DETERNATED WHEXE THE STUDGE BLANKET IS IN THE CLAREFRER CO.SHUT DOWN WASTE TREATMENT SYSTEM AT 8 Pm AD CONGRED FINAL ETTLIENT SAMPLE 70DAYS\_LOG\_RENJEW\_\_\_\_ HJGH PH = 9.8 LON PH = 2.0 HIGH 3MAN PLAN = 160 GPM ARE HOVES OF OPERATORY = 7Am TO 8 PM CHART SPERD = 20 CM/HR



COMMONWEALTH OF VIRGINIA

#### COUNTY OF FAIRFAX

DEPARTMENT OF PUBLIC WORKS
PENDER MILL BUILDING
3930 PENDER DRIVE
FAIRFAX, VIRGINIA 22030



February 11, 1987

Ms. Lisa Marie Clark
Virginia Department of Waste Management
11th Floor, Monroe Building
101 N. 14th Street
Richmond, Virginia 23219



Dear Ms. Clark,

In response to your request, enclosed are copies of analytical results, written correspondence, and office notes related to the Trans/Circuits operation at 3509 Carlyn Springs Road. The enclosed represents roughly 15 percent of our Trans/Circuits records.

Regarding prior tenancy, we initiated our file on Trans/Circuits in 1973--Trans/Circuits commenced operations at subject location in 1967. The prior tenant (Melpar Division of E-Systems, Inc.) developed and manufactured circuit boards from 1961 to 1967. We have no information on releases to the sanitary sewer prior to 1973.

The record reveals violations of Fairfax County's sewer use ordinance (Chapter 67 of the Fairfax County Code) including discharge of wastes outside the pH range of 5.5 to 10.0 and exceeding limitations for lead and copper. The record further suggests illegal discharge of toxic organics; however, the County was unable to obtain sufficient evidence for legal action. Finally, the record reveals the owner's investigation for possible contamination of the building interior with toxic metals.

If you have any questions regarding the enclosed information please feel free to contact Mr. Paul Obst at telephone number (703)550-9740, ext. 318.

Sincerely,

DEPARTMENT OF PUBLIC WORKS

J. D.∽Jenkins, Director

. Wastewater Treatment Division

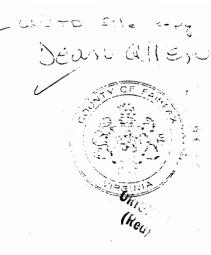
JDJ:PMO:cbl

Ms. Lisa Marie Clark February 11, 1987 Page 2

cc: Elaine Schaeffer, Director, Laboratory Services, w/out encl. Erin Ward, County Attorney's Office, w/out encl. IWS File



# COMMONWEALTH OF VIRGINIA COUNTY OF FAIRFAX FAIRFAX, VIRGINIA 22030



September 2, 1975

Joseph E. LaLiberte, General Manager Trans/Circuits, Inc. 3509 Carlyn Spring Road Falls Church, Virginia 22041

Dear Sir:

At various times in the past two years your firm has been visited by representatives of Fairfax County Department of Public Works. Their purpose was to survey your liquid waste discharges to the County sewer system. Through these informal talks your firm has been made aware of its obligations under Public Law 92-500 and Chapter 22 of the Fairfax County Code to reduce or eliminate toxic discharges and prevent the discharge of other prohibited wastes. Your firm has been urged to initiate voluntary corrective procedures which would bring your discharges into compliance with the Federal, State and County laws.

Recent inspection of sanitary sewer lines along Carlyn Spring Road have revealed structure damages caused by chemicals in the flows. Analysis of discharges from your plant show levels of heavy metals and other pollutants significantly above allowable limits of concentrations.

Your attention is directed to Section 22-11 (b) of the Fairfax County Code pertaining to industrial wastes which states in part:

"Waste products from manufacturing or industrial operations shall not be introduced into the public sewer system until it has been determined . . . . that the introduction thereof will not cause damage to the public sewer system or interfere with the functioning of the sewage treatment plant."

Section 22-11 (c) states that: "no person shall discharge any waters or wastes having a pH lower than 5.5 or higher than 10.0, or having any other corrosive properties capable of causing damage to structures of the sewerage system. In addition, any wastes or waters containing toxic or poisonous substances are also prohibited if they are discharged in sufficient quantities to cause a health hazard or interfere with any sewage treatment process."

Trans/Circuits, Inc. is therefore directed to submit a plan of corrective action to this Department which will outline what steps it will take to reduce these toxic elements and eliminate the harmful and damaging discharges. Target dates for completion of each phase are to be included. These plans should include details on pretreatment methods for all chemicals used in

your printed circuit and metal finishing operations which you intend to discharge to the sanitary sewers. This includes rinse waters; photochemical wastes; any spent solutions such as mineral acid and ammonium persulfate baths; and especially methods of disposal of your spent copper etchants. Thought should also be given to water saving and/or water re-use processes wherever they have practical applications within your operations. Any proposed changes must also comply with applicable building, electrical, and plumbing regulations.

Your corrective action plan should be submitted to this office for review by November 1, 1975.

If there are any questions or if the County can be of any assistance, feel free to contact this office.

Very truly years,

RICHARD J/GOZIKOWSKI, Director Wastewater Treatment Division Office of Waste Management Department of Public Works

cc: G. G. Ehrich

J. H. Liedl

A. T. Roby

Thru: Glen G. Ehrich, Director COUNTY, VIRGINIA

J. H. Liedl, Director Office of Waste Management

MEMORANDUM

TO:

F. Lee Ruck County Attorney

DATAugust 25, 1973

On

FROM:

R. J. Gozikowski, Director Wastewater Treatment Division

The

FILE NO:

SUBJECT: Request for Initiation of Legal Action against Trans/Circuits, Inc.

REFERENCE:

Attached is a correspondence file containing information related to the Ccunty's efforts to obtain cooperation from Trans/Circuits, Inc. in correcting problems associated with their industrial waste discharge into the County sewer system. Trans/Circuits is an electroplating firm which manufactures printed circuits. Our efforts in resolving this situation go back as far as 1973. I feel that we have been more than extremely patient and cooperative with Trans/Circuits; however, in return we have received no action other than continual promises.

Specifically, Trans/Circuits is in violation of sections 67-2-1-(c)7 (low pH) and 67-2-2-(a) (discharge of corrosive liquids) of the County Code. Due to the nature of their manufacturing process, extremely high levels of heavy metals (copper, lead, nickel) are discharged into the County sewer system. Maximum copper discharges have exceeded 2000 mg/l, whereas copper levels of 1.0 mg/l are known to be toxic to wastewater treatment plant organisms and natural occurring aquatic life.

Discharge of the Trans/Circuits' waste into the County system has caused severe damage to County lines and has caused operational problems at the Arlington County treatment plants, to which this flow is tributary.

Trans/Circuits is currently in the process of replacing their plumbing and laterals (which have been completely destroyed by their own corrosive wastes) with glass lined pape. This action by Trans/Circuits indicates to us that the firm does not honestly intend to correct their corrosive waste discharge, since glass lined pipe will not deteriorate from acidic, corrosive liquid discharges.

Because we are unable to obtain voluntary cooperation from Trans/Circuits, we are hereby requesting initiation of legal action against this firm for violations of the Fairfax County Code to include levy of fines.

#### RJG:lr

#### Attachment

cc: G. G. Ehrich

J. H. Liedl

R. Pm McMath

A. T. Roby

G. Williams



MEMO TO Saine

DATE 11-36-85

FVI - Trans circuits had an accidental discharge of approximately 500 gallons of high (r Worker. (Rea)) Larry Mack notified IWS late Friday afternoon by telephone. Attached is a follow up report

The discharge was from 2:00pm ) on Nov 20 to 2:30 pm Nov 20.

### TRANS/CIRCUITS, INC.

3509 Carlyn Spring Road, Falls Church, Virginia 22041 (703) 820-6405

November 26,1985

Ms. Elaine Schaeffer
Industrial Waste Division
Lower Potomac Plant
P.O. Box 268
Lorton, VA 22079

Dear Ms. Schaeffer:

On Wednesday, November 20, 1985, at 2:00 p.m., I was informed that the clean-up personnel would be dumping some chemicals. The chemicals were suppose to be water rinses from the Chromic Acid tanks. At 2/30, I started adding extra amounts of sodium bisulfate to treat the chromium waste, changing it from hexavalent chromium ( $Cr^{+6}$ ) to trivalent chromium ( $Cr^{+3}$ ).

After the waste treatment system was started, on Thursday, November 21, 1985, I noticed the final effluent had a lime green color. Knowing that there was some type of upset, I went to the "recycle" mode for the waste treatment system.

Although the waste was treated several times it still had somewhat of a light green color, but there were very few solids in the effulent.

The results for the waste treatments final effulent for November 21, 1985, showed chromium to be 73.45 mg/l. After further investigation, by myself and others directly connected with the waste treatment, the investigation showed that the chromium was a concentrated dump rather than the rinses which it was said to have been.

Sincerely,

William J. Thomas

Waste Treatment Operator

See memo to Elime S. from Ramma S. of telephone conversation with Larry Mock (call was two days after the fact) which provides volume and time.

Λ

### TRANS/CIRCUITS, INC.

3509 Carlyn Spring Road, Falls Church, Virginia 22041 (703) 820-6405

November 26, 1985

Ms. Elaine Schaeffer
Industrial Waste Division
Lower Potomac Plant
P.O. Box 268
Lorton, VA 22079

Dear Ms. Schaeffer:

This letter is intended to inform you of an <u>accidental discharge</u> of high chromium effluent on November 20, 1985.

The incident resulted form a mis-communication between the wet line persons rinsing tanks out, and the plant operator's understanding of what was being rinsed. The Waste Treat Operator was under the impression he was receiving rinse water only. Regrettably the rinse water also contained chromium sludge, which released a concentration of chromium surpassing his preparation for treatment.

Since the incident we have met as a group, with all individuals involved in the clean up process and discussed the ramifications of the problem which occurred on November 20th. I also stressed that similar types of situations would not be tolerated. The Waste Treatment Operator (William Thomas) now, with the wet line supervisor and our Process Engineer, will review all chemistry going to Waste Treat prior to rinsing. All rinsing processes will be supervised.

With the additional awareness and understanding of how we will be treating "in house" chemistry being processed, problem situations like the November 20th accident can be avoided.

Should you have any questions, please contact me.

Singerely,

Larry D. Mock

TO: E.S FROM: Paul M. Clast

SUBJECT: Trans/ Circuits

In 1958 Welfar Durision of E-Systems, Inc. was insued special persons to conduct secondary research and development in a commencially zoned and along Carlyn Springs Road. White in experience Welfan's divolvinge flowed through an under ground markedigation tank containing limes force. Trans / Circuits, succeeding Melpan and operating under their special personst, was issued a Non-residential Use Personst in July 1967. Trans / Circuits, however, conducts manufacturing - not research and development. Also, Towns / Circ subsequently by passed the wader ground tank.

The attacked wino summanings to May 1983. Note, the current Zoning Codinance, which became effective on August 14, 1978 prohibits any son conforming use (excepting contain residential and commercial uses) from sularging, extending on attitutionally altering any building in which such use in conducted (8 112-15-103)

Note: damage extends hegan!
To it teet;
epairs were ally to the mekrault

The WWTD on numerous occasions advised T/C of
the need to neutralize acidic wastewater prior to discharge.
The result of T/C's failure to neutralize such mastes
was dumage to the County sewer extending 2,071 feet.
Prior to scheduling sewer line repairs T/C was informed
their discharge would have to comply with pH limitadions
at all times when line was repaired and repairs were
not scheduled until after T/C attested to the fact
that discharge would be newtralized.

The pretreatment system is designed to eliminate toxic pollutants and provide pH neutralization. Monitorings during start-up reveal system operation according to design and County approval result in a discharge pH around 9.0, as indicated by Haviland Products Company process description.

Examination of monitoring results and conversation with TIC employee (as well as obstruction of munhole) show that TIC is not granding apperating their system as designed. Kather their are modificing was tesposal practices when aware of County monitoring. Immediate - of employee when County van entered parking receptionist informing of our arrival.

itoring bees not provide results

Comse for the Collawing:

The Court begund Train / Count to instituted equente, with in quelly to one day of violation, two days were not precessed. The our was track board Guly 12, 1024. Time Counts pled Willing 17, 1984 IWS othered three pureucusors for last victother. of testation for the bungs of concerne works. There Recent Counts. I thuis 19, 1484 the Courty powed on Town Counts a Retree dutinuel defectioner in de included copy of County surnitaring Much 4 1484 Trem / Circuits suchniched a Lauline monthung April 2, 1984 from / Events publing and other brukelings affilled Mounte of thestoward Incherge tornet.

30 days, a Afluent pil monder acceptable to DPW.

December 21, 1984 True through precised said of behaving 1985 as the dute by which the land precised said of behaving 1985 or the dute by which the land said the we appeared operation. I then the lines was informed that the County solding we will provide the horizon do de so de duy to the westerning the date provided (10, black 29, 1485) and de du test for my one for your the lands of the system.

I cheereng 21, 1985 about freed he with a such sindilletter delay were



#### COMMONWEALTH OF VIRGINIA

## COUNTY OF FAIRFAX

4100 CHAIN BRIDGE ROAD FAIRFAX, VIRGINIA 22030



FEB 0 1 1982

CERTIFIED MAIL

Mr. Joseph E. LaLiberte General Manager Trans/Circuits, Inc. 3509 Carlyn Spring Road Fails Church, Virginia 22151



Dear Mr. LaLiberte:

In August, 1981, rehabilitation of 2,071 feet of damaged Fairfax County sanitary sewer along Carlyn Spring Road and easement was completed. As you are aware, the cause of the damage to this part of the sewer system was a direct result of acid wastewater discharges from Trans/Circuits, and the failure of Trans/Circuits to comply with Fairfax County directives, spanning the last seven(7) years, requiring neutralization of the wastewater prior to discharge in accordance with the Fairfax County Code.

The cost to rehabilitate this portion of the sewer system was \$105,464.68 and is detailed in the attached memorandum. This is to advise you that you will be receiving an invoice and request for payment from the Fairfax County Office of Finance for the total amount of \$105,464.68 for this rehabilitation work pursuant to Section 67-1-8 of the Fairfax County Code which states:

Section 67-1-8. Damage to facilities to be reported to Sanitary Engineer; liability for payment.

In the event of damage to any part of the facilities of the County, it shall be the responsibility of the person causing such damage to immediately notify the Sanitary Engineer. The necessary repairs or replacement shall be made by the County or under supervision of the County at the expense of the person causing such damage.

In addition, recent sampling indicates that Trans/Circuits continues to discharge acid wastewater into the facilities of the County as indicated by test results given below:

			24-Hour		No. Hourly Samples
			Composite	pH Range	Below pH 5.5
Jan.	19-20,	1982	4.3	2.5-9.1	6
Dec.	16-17,	1981	2.3	2.0-6.8	14
Nov.	18-19,	1981	3.8	2.8-7.1	8

Section 67-2-1(c)7. Prohibited discharges into the facilities of the County.

Any water or wastes having a pH lower than 5.5 or higher than 10.0.

This is disturbing since Trans/Circuits has gone to great expense to procure and install a pretreatment system that, according to the March 16, 1981, letter from Mr. Richard Walters, "... by July (1981) Trans/Circuits will have a complete 100 gpm system in operation. At this point in time, the (Red) effluent from the facility should be treated to conform to the limits outlined by the County of Fairfax." The pretreatment system appeared to be operating satisfactorily because sampling results for May, June, July, August, September, and October, 1981, indicated pH levels well within the Fairfax County limits of pH 5.5 - 10.0.

Please be advised that it is your responsibility to operate and maintain your wastewater pretreatment system to comply with Fairfax County regulations. This requires maintaining daily operating logs, maintenance inspections, a contingency plan for equipment breakdowns and malfunctions, and providing trained operating personnel.

Taking into consideration the following:

- (1) Trans/Circuits' past record (7 years) in failure to comply with Fairfax County regulations concerning prohibited discharges;
- (2) Damage to the Fairfax County sewer system as a direct result of illegal acid wastewater discharges by Trans/Circuits; and
- (3) Installation of a pretreatment system, by Trans/Circuits, with 6 months of demonstrated ability to comply with Fairfax County regulations,

this is to advise you that, commencing immediately, the wastewater discharged by Trans/Circuits to the facilities of the County be maintained within a pH range of 5.5 - 10.0 at all times. Failure to comply with the above will result in legal action which may include imposition of Section 67-1-12. Penalties. "Any person who violates any provision of this chapter shall upon conviction be punishable by imprisonment not to exceed thirty(30) days or by a fine not to exceed one thousand dollars (\$1,000.00) or both. Each day of violation of this chapter shall continue shall constitute a separate offense"; and/or cessation of water supply.

Trans/Circuits wastewater discharge will continue to be sampled on a monthly basis and you will receive, as usual, the test results from the sampling.

If you have any questions, please contact Mr. Richard Gozikowski, Director, Wastewater Treatment Division (691-3381).

Sincerely,

DEPARTMENT OF PUBLIC WORKS

Glen G. Ehrich

## GGE: lw

## Attachment

cc: J. Hamilton Lambert, County Executive David Stitt, County Attorney

J. H. Liedl

R. J. Gozikowski

A. T. Roby  $\checkmark$ 

 $rac{m{O}_{R_{i}\cap j}}{O_{i,j}}$ 

March 26, 1985 received Letter from Train / Encerts in response to Motice, Letter reports compleme with only successfully excursion—
Our succesting contradicts then report. Also, Train / Cheries informed that the lang rystem will set be operational until May, 1985. Installation delay is not partitled, report of Eletingaria was after system similablation date.

metal

April 1-2, 1985 Monitoring (houndy sample collection) and april 3.10, 1985 Continuous monitoring indicate Traces/Circuits alkned the operation of their system resulting in a pt consistently award 9.0.

he summary, during Town / Counts living the luminous has acted linesprinkly in their use of the sautions seeven.

Only when legal enforcement is immunest has the luminous acted to comply with prehentiment regions weets. Ever following legal action Trans Circuits has failed to make good faith efforts to comply, frequently failing to meet deadlines and submitting imply parts or privations reports. It is considered that delegs will continue and competinic will necessitate continuing (extensive ) stiff fine Frence. and connect Trans/Circuits conflictly discharges lave complained that Town / Circuits willfully discharges improved waster, by passes preheatment system, and shorts off the pt months during discharge of costors with pt & frems.

1	SEPT. 2, 1975: FIRST LETTER TO LALIBERTE FROM RJG - ADVISED OF
	ILLEGAL DISCHARGE AND REQUIRED CORRECTIVE PLAN
2	AUG 21, 1978: LETTER TO LALIBERTE FROM RIG ADVISING THAT DUE TO
	FAILURE TO ELIMINATE ILLEGAL WASTES COPY OF FILE SENT
	70 Co. A174
3	AUG 25, 1978: MEMO TO F. LEE RUCK (CO. Arty) FROM RJG
	OUTLINED PROBLEMS CAUSED BY TYC DISCHARGE
	RESULTED IN TERM INSPECTION,
1	DEC. 8, 1978: INITIATED SENDING TIC MONTHLY MONITORING RESULTS
4	FEB. 5, 1979: TEAM INSPECTION REPORT TO LALIBERTE FROM GERALD
	P. BERSON (Chief, Permits AUD PLAN REVIEW BE) -
•	"EXTREMELY HAZARDOUS WORKING ATMOSPHERE"
	SUBMAT POPM OR LEGAL ACTION
٠.	FEB 15, 1979: PROCESS DESCRIPTION FROM HAVILAND PRODUCTS COMPANY
	CAUSTIC SODA ADDED TO RAISE plt TO ABOUT 9.0.
	MAR. 17 & APRI 1980: ANALYZED PRETIZENTMENT STSTEM EFFLUENT  MAR. 17 & APRI 1980: ANALYZED PRETIZENTMENT STSTEM EFFLUENT  MAR. 17 & APRI 1980: APRI 17 PH 8.7, Ca 7.23 mg/L  APRI 1 PH 8.1, Ca 2.22 mg/L
7	MAR 4-5, 1981: LABORATORY MONITORING RESULTS ILLUSTRATING OPERATION
	OF PRETREATMENT STSTEM - PH 8.4 - 9.0 FOR 25 HRS
$\varepsilon$	MAR 15, 1981: LETTER FROM RICHARD WALTERS TO PMO THAT BY
	JULY 1981 WOULD HAVE ATOOGPM SYSTEM AND THEREBY
	CONTINUOUSLY COMPLY WITH CODE, PRESENT SYSTEM
	CAPABLE OF MAINTAINING PH WITH OWLY BRIEF EXCURSION
	STATEMENT REQUIRED BEFORE LINE REPAIRED.
9	MAY 14, 1981: MEETING WY R. WALTERS & TONY FOLLERTON OF TIC
	PMO, J. Gragg (IMD), & (2) Insitulorm Ensi Rens.
	INFORMED WOULD INTERRUPT BUSINESS ACTIVITY ON
	MAY 20, 1981 FOR APPROX 12 HRS DURING REPAIRS.
	Emphasize NEED TO MAINTAIN plt WITHIN 5.5 TO 10.0.
10	MAY - Oct, 1981: 6 MONTHS OF DEMONSTRATED COMPLIANCE

ŗ.

	İ	
11	FEB. 1, 1982:	LETTER TO LAUBERTE FROM GEEN EHRICH -
		INFORMED OF LIABILITY FOR DAMAGE, ADVISED
		FRILURE TO MAINTAIN plt WITHIN 5,5 TO 10,0
		WOULD RESULT IN LEGAL ACTION COMMAN
12	JUNE 7, 1982;	FIRST SIGNIFICANT VICIATION AFTER CETTER OF
		FEB. 1, 1982,
13	DEC. # 1982 ;	CITED FOR CODE VIOLATION BASED ON MONITORING
		THIS DATE.
14	JAN. 3 - 7, 1983 ;	CITED FOR CODE VICIATION BUSED ON MONITORIN
		OF JAN 3, 1983. RESULTS SHOW IMPROVEMENT
		DURING INTENSIVE MONITORING FOR DISCHAR
		PROFILE. SYSTEM STARTED UP ON JANG WITH
		22 OF 24 HOURS BETWEEN 9,0 TO 9,4.
		EMPLOYEE'S INQUISITION OF MENTIONIC SCHEDULE
		ETC. SHOW ARE NOT OPERATING SYSTEM RATHER
		ATTEMPT TO TREAT WASTE WHEN KNOW ARE BEI
	<u> </u>	· · · · · · · · · · · · · · · · · · ·

MONITORED

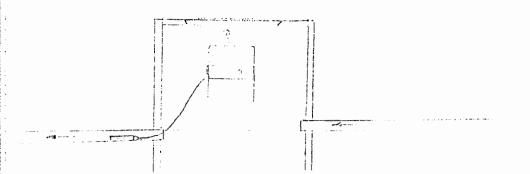
PHOTOGRAPHS OF VAULT SHOWING LADDER

ABOTE OF

dumage to the sewer line past the repair. The was well advised of need to maintain off within stated limits, of their failure to do so, and that the County would take onlying at action with such failure. The spende the system is considered the direct result of an attempt to minimize costs, as it is felt that The allowed an extremely hazardons atmosphere to exist with disregard to engloyees safety.

And M

MANHOLE DETAIL
The sampling manhole was designed and constructed by Irans/Circin to provide for representative surgling; all discharged process wastewater is required to flow through this manhole of Akocated on the edge of TIC's parking lot directly in front of TIC's building (3509 Carlyn Spring Road). Manhole voilthes approximately as wi 3 ft. x 3 ft., depth 4 ft. Process wastewater contributed to the building draining system enters the building sever, spills into the manhole from the inlet pipe (located approximately 2 ft. from manhole base), pools, and overflows into the outlet pipe (located opposite inlet pipe, estimated diameter 3 in.). The effect from the manhole flows desictly into the Fairfax County sanitary sever.



IN THE CIRCUIT COURT OF FAIRFAX COUNT

BOARD OF SUPERVISORS OF FAIRFAX COUNTY, VIRGINIA,

Plaintiff,

v.

AT LAW NO. 612

TRANS/CIRCUITS, INC.,

Defendant.

ORIGINAL (Red)

## CONFESSION OF JUDGMENT

In the Clerk's Office of the Circuit Court of the County of Fairfax, Trans/Circuits, Inc., by its President, Joseph LaLiberte, hereby acknowledged itself to be justly indebted to, and do hereby confess judgment in favor of the Board of Supervisors of Fairfax County in the sum of \$68,000.00, with judgment interest from the 15th day of August, 1983, until paid. However, if—Trans/Circuits, Inc. pays the \$68,000.00 in eighteen (18) equal monthly installments of \$3,777.78 beginning on the 15th of August, 1983 and continues to make such payments on or by the 15th of each month thereafter until paid, no such judgment interest shall be charged.

Defendant, Trans/Circuits, Inc., also agrees to refrain from violating § 67-2-1 of the Fairfax County Ordinance.

Given under my hand this 26 day of

1983.

TRANS/CIRCUITS, INC.

NOTE, CONFESSION OF JUDGEMENT

SEEN AND AGREED BY EDWIN
A. WILLIAMS.

By

Joseph LaLiberte Fresident and Attorney-in-Fact WE ASK FOR THIS:

DAVID T. STTTT COUNTY ATTORNEY

Ву

Assistant County Attorney 4100 Chain Bridge Road Fairfax, Virginia 22030 Counsel for Plaintiff, Board of Supervisors of Fairfax County

ORIGINA (Red)

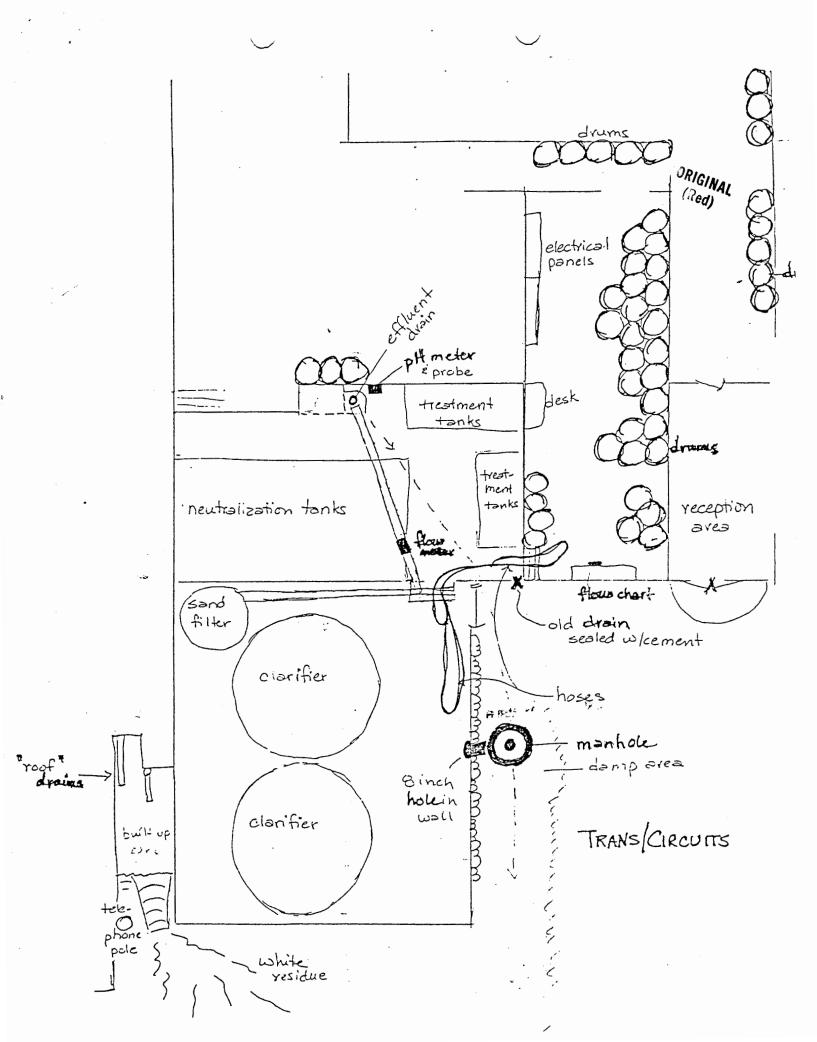
SEEN AND AGREED:

KELLOGG, WILLIAMS & LYONS

Edwin A. Williams, Esq. 246 Maple Avenue, East

Vienna, Virginia 22180 Counsel for Defendant

A Pete -/



Apendix C
Sample Analysis



## **EASTERN CHEMICAL WASTE SYSTEMS**

management of environmental preservation TM

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only: 2619 Evarts Street, N.E. Washington, D.C. 20018 Mailing address: P.O. Box 13085 Washington, D.C. 20009

March 21, 1986

Mr. Roger Stix Transitron Electronics Corp. c/o Trans Circuits, Inc. 3509 Carlyn Springs Rd. Falls Church, VA 22041

Dear Roger:

Enclosed please find the original copies of the E.P. Toxicity tests done by Gascoyne Laboratories. If you have any questions about this, please call me.

Sincerely,

Norb A. Dickmann, chemist Chemical Consultant to Sales

Elizabeth, NJ: (201) 352-6550

New York, NY: (212) 242-3349

MEMBER AMERICAN ASSN. FUR LABORATORY ACCREDITATION

# GASCOYNE LABORATORIES, INC.

**BALTIMORE, MARYLAND 21202** 

BALTIMORE (301) 539-0195

SALISBURY (301) 543-1051

## **CERTIFICATE OF ANALYSIS**



Report No. 86-0675-1

Report to:

Eastern Chemical Waste Systems

ORIGINAL (**Red)** 3-6-86

Report Date .

Sample I.D. Concrete samples marked as below:

EP	TOXICITY	TCEP-01	TCEP-02	TCEP-03	TCEP-04	TCEP-05	TCEP-06
	Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Barium (Ba)	< 1	< 1	< 1	1	3	1
** :	Cadmium (Cd)	0.10	0.05	0.03	0.01	0.03	0.01
	romium, Total(Cr)	0.1	0.4	0.1	0.4	0.2	0.2
	Lead (Pb)	0.1	< 0.1	< 0.1	< 0.1	1.2	0.4
	Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Silver (Ag)	< 0.01	0.04	< 0.01	< 0.01	< 0.01	< 0.01

The above results are expressed in mg/liter of extract. NOTE:

CHASCOYNE LABORATORIES, INC.



## EASTERN CHEMICAL WASTE SYSTEMS

management of environmental preservation TM

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification USEPA IDENTIFICATION NO. DCD981035504 (Red)

Facility address/shipping only: 2619 Evarts Street, N.E. Washington, D.C. 20018

June 9, 1986

Mailing address: P.O. Box 13085 Washington, D.C. 20009

Mr. Roger Stix Transitron Electronics Corporation 100 Unicorn Park Drive Woburn, MA 01801

Dear Roger:

As you know, the results of the preliminary sampling of the concrete pad did not prove it to be E.P. Toxic. The results of those 21 samples taken in 2" deep cores do not preclude other areas on the pad being E.P. Toxic, however.

Specifically, the points of concern are:

- 1. The top 1/4-1/2 inch of concrete. The results of the preliminary sampling were from 2" long cores of cement, per your request. The contamination level shown is an average of that 2 inches (PPM readings). It is logical to assume that there would be heavier contamination on the very top layer and lighter contamination on the bottom. The immediate top layer could very well be E.P. toxic.
- 2. The juncture points in the drainage trenches. Should the floors of the drainage trenches be contaminated it would be reasonable to assume that the highest concentrations of metals would be found at the intersections where pipes would have been fitted together. Most leakage would have occurred at these points.
- 3. The pit floors. Heavy metals accumulate at the lowest point in the system. The highest level of contamination found in the preliminary sampling was in the sample from the wall of the largest pit. Samples should be taken from the floors of each pit.
- 4. The drainage ditch near the former lab area. This drainage ditch was dug to draw accumulations of water on the lab area floor. Visually it appears that there has been drainage or seepage out of the side of the pad at that site. Any seepage from this source would most probably be contaminated since the liquids would come from leakage from pipes rather than from groundwater. An accumulation of metals may have occurred in this

Toll Free: 1-800-826-0518	Main Office in DC: (202) 636-9555						
New York Office: (212) 242-3349	Pittsburgh Office: (412) 941-1229						
Elizabeth, NJ: (201) 352-6550	Baltimore, MD: (301) 625-2500						
Eastern Chemical Waste Systems is a division of TSCGI							



Mr. Roger Stix June 9, 1986 Page Two

ditch. At least one sample should be taken 2-3 feet down (GIM) the gravel.

- 5. Areas of obvious concrete decomposition. There are several areas where the concrete has decomposed and crumbled. An example on this is the area along the wall on the access ramp. It appears that drainage of liquids, and probably acids, has occured on this spot over time. Therefore it is very suspect. Samples should be taken at the worst of these spots.
- 6. The sand in several of the chambers below the pad. There is visual evidence that liquids have seeped or drained from the walls of the pad in the section abutting the former lab area. We were also told that many gallons of liquid were pumped from the sand under the pad when a hole was dug in the pad several years ago.

Very possibly this liquid came from leaking pipes or from leakage through the walls of the pits. Wells should be dug into this sand in several places and the sand should be sampled and tested.

I have attached a blueprint of the pad area on which I've indicated the locations where we suggest samples to be taken. We suggest samples taken 1/4 inch deep at the intersections of a 10 foot grid to determine surface contamination. Other locations are indicated as needed. The numbering system for the suggested locations refer to the list above, i.e., a '3' on the blue print would indicate a sample to be taken from the pit floors.

ECWS does not regard this proposal as unsolicited advice. Under the contract between Transitron and ECWS, ECWS is guaranteed disposal of 100 drums of concrete. Environmentally it makes good sense to determine the hottest spots so that we can dispose of concrete taken from those spots instead of at random or by some guesswork system.

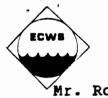
The total number of samples we suggest is 64. We estimate that 30 hours of chemist/supervisor labor and 30 hours of concrete technician labor will be needed to take these samples. Also, certain rental equipment will be needed, such as a jackhammer to dig the wells in to the sand layer.

The cost of this sampling would be as follows:

64 samples analyzed for EP toxicity at \$150.00/sample.....\$9600.00

30 hours of chemist/supervisor labor

at \$27.00/hour....\$810.00



Mr. Roger Stix June 9, 1986 Page Three ORIGINAL (Red)

30 hours of concrete technician labor at \$27.00/hour\$810.00
Estimated cost of Rental Equipment (jackhammer and core drill)\$600.00
Total Cost\$11,820.00

If you agree to this proposal, please deposit the above amount into the escrow account and call me to schedule the work. If you want to do only some part of the above, please call me to discuss it.

Sincerely,

Norb Dickmann, chemist Contract Specialist

DRAFT.ND:rts

cc: Mark V. Soresi, President, ECWS-HQ Craig A. Childres, Vice-President, ECWS-HQ





4100 CHAIN BRIDGE ROAD FAIRFAX, VIRGINIA 22030



April 23, 1984 ·

CERTIFIED MAIL

Mr. D. James Aaron Trans/Circuits, Inc. 3509 Carlyn Spring Road Falls Church, Virginia 22041 ORIGINA! (Red)

#### NOTICE OF VIOLATION

This notice is to inform you that Trans/Circuits is in violation of the Fairfax County Code, Chapter 67 (Sanitary Sewers and Sewage Disposal), \$67-2-1(4) (General Discharge Prohibitions: Corrosive Wastes). Monitoring of Trans/Circuits' discharge on April 16-18, 1984 reveals corrosive waste discharge to the sanitary sewer. The indicated discharge has frequently exceeded both the minimum and the maximum allowable pH limitations of 5.5 and 10.0 respectively. A summary of Fairfax County monitoring results have been enclosed.

Immediate compliance with the County Code is required. Severe penalties for non-compliance are provided for in Chapter 67 of the Code and shall be imposed. Each day of violation of General Discharge Prohibitions shall constitute a separate offense.

You are requested to provide us a written explanation as to the reasons for these violations and your plan of action to correct them. Please submit this information to our office no later than five(5) working days upon receipt of this letter.

Sincerely,

DEPARTMENT OF PUBLIC WORKS

Jimmie D. Jenkins, Director Wastewater Treatment Division

JDJ:lw

Attachment

cc: Denton U. Kent, Deputy County Exect

Development

cc: R. J. Gozikowski, Director, Office cc: Elaine Schaeffer, Director, Environ

Note Cannot believe that

System coincidentally malfunctioned

1-3PM 4/16/84 — our monitoring

indicutes compliance 2+0-940 pm.

12,21 at 12Ar corresponds to

between samples # 11/2 +/16

which confirms our results!

Problems may indicate Tre

was not operating system prior

to our monitoring.

## DISCHARGE MONITORING SUMMARY

Ger Ger

Source: Trans/Circuits, Inc. Date: April 16-18, 1984

Parameter	Minimum	Maximum
pH, units	2.8	12.4

OURCE 7/C
C ECTION DATE 04-16-84

		pН	CYAN	IDE	AM	MONIA	С	OD	
SAMPLE	TIME	units	units	mg/l	•	•	units	mg/1	COMMENTS
4 HR COMP		11.31							
HR COMP	1								ORIGINA
1	2:38	9.2							check (Red)
2	2:40	9.3							ORICINA Check (Rod) Stant 4)
3		9,4							
4		9,0							
5		9,0							
6		8.7		,					
7		8.2							
8		7.9							
9		8,2							
10		11.4							
11		12.00							
7		12.17							
_3		11.9							
14		10.81						,	
15		10.7							
16		10.3							
17		9.8			-	·			
18		9.4							
19		9.0 12.2							
20		12,2							
21		11.37							
22		12.4)							
23		12. 4							
24		12,0"							
25		(7.1)							
26									
· 27							·		
28									

TEST COUNT 26

-		DATE ANALYZED	SIGNED
	рΉ	041784	PJO Connor
١	CN	·	
١	NHa		
1	COD		

OURCE / C
LECTION DATE 04/784

0.1357.5	TIME	pН	CYANIDE		AIMONIA		COD		COVACTIMA
SAMPLE	11me	units	units	mg/l	units	mg/1	units	mg/l	COMMENTS
HR COMP		9,5							
HR COMP									ORIGIA
1	1:52 pm	9.8							ORIGINAL (Red)
2	,	2.9							
3	(	2.8							
4		$\mathcal{O}_{i}$							
5		5.1							
6		9.1							
7		9.4							
— <sub>—</sub>		9.8							
9		7, 2						·	
10		9.1							
11		8,5							
٦٥		8.5							
		7,7							
14		7,6							
15		7.6							
16		7.5							
17		7.4			-			1	
3		7,4							
19		9,1					1		
20		8.8							
21		12.4)							
22									
23		-							
24		_							
25		_				-			
26		- 1							
27		-							
28		-						<u> </u>	

TEST COUNT ZZ

	DATE ANALYZED	SIGNED
pН	041884	PJO' Connor
CN		
NH3		
COD		

OURCE 7/C

CO CTION DATE 04/884

A MOTE	TIME	pН	CYANIDE			IONIA		OD	COMMENTE
AMPLE	TIME	units	units	mg/l	units	mg/l	units	mg/1	COMMENTS
HR COMP		10,2							(Rou) "
HR COMP							<u> </u>		·
1	10:05	(12.3)					1		
2		12,2					<u> </u>		
3		11,2							
4		10.0					<u> </u>		
5		9,0					<u> </u>		
6		8.6	`						
		7,8					<u> </u>		
8		7.6					<u> </u>		
9		7.5							
10		7.6							
11		7.6							
11 1'	•	716							
د1		7.7					1		
14		7.6							
15		7,5							
16		7.4	-						
17		7,6			-				
		8.0							
19		8.0 7.9							
20		7.9							
21		7.8							
22		9,6							
23		9.1							
24		79							
25		(72)							
26		9.0							
27									
28									

SEST COUNT 27

	DATE ANALYZED	SIGNED
pН	041984	PJO Corno
CN	·	
NH3		
COD		

SOURCE TRANS/CIRCUITS
LECTION DATE 4/23-24/84

TEST COUNT /9

	TIME	pН	CYAN	ILDE	AM	IONIA	C	OD	T	0010 0000
SAMPLE	TIME	units	units	mg/1	units	1 .	units	mg/1		COMMENTS
4 HR COMP		6.3							1_	$L_{C_{i}}$
HR COMP				•			<u> </u>		1	
1	12:15 PM	8.1							<u> </u>	
2		7.0							1	
3		3.4 ×	<b>-</b>							
4		3.5							<u> </u>	
5		4.0					<u></u>		<u> </u>	
6		7.1								
_		8.3								
8		9.0								
9		(3.1)	· .							
10		6.2								
11		8.2								
		7.8								
13		7.6								
14		7.5								
15		-								
16		-								
1.7										
8د										
19									-	····
20										
21		8.2								
22		7.8								
23		8.7								
24		(9,4)								
25										•
26										
27		İ								
^q						ĺ				-
				DATE	ANALYZ	ED	SIGNED			

4/24/84

PH CN NH<sub>3</sub> COD

## FAIRFAX COUNTY, VIRGINIA

#### MEMORANDUM

TO:

J. D. Jenkins, Director

DATE

May 7, 1984

FROM:

Wastewater Treatment Division

Elaine Schaeffer, Director

Laboratory Services

FILE NO

BUBJECT

Discharge Violations at Trans/Circuits, Inc.

REFERENCE

A NOTICE OF VIOLATION was sent to Trans/Circuits as a result of corrosive discharge to the sanitary sewer on April 16-18, 1984. A written response from T/C was received explaining that management had reviewed the "reasons for pH violations" and had taken action to correct these violations. Upon review of T/C's written explanation as to the reasons for these violations and plan of action to correct them, it is apparent that adequate waste management practices are not in use at T/C. Evidence of inadequate waste management practices are cited below.

- 1.) A corrosive waste was discharged to the sanitary sewer on 4/16, 4/17, 4/18 and 4/23.
- 2.) T/C written response for period of violation and corrective action taken was identified as having occurred prior to the violations monitored by IWS staff.
- 3.) T/C corrective action taken was insufficient as is evidenced by subsequent discharge violations.
- 4.) T/C identified violation of pH 2.2 from 1:00 PM to 3:00 PM on 4/16 does not correspond with the initial IWS monitoring result of pH 9.2 at 2:38 PM on 4/16.

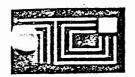
It is therefore evident that T/C has not adequately reviewed and managed their waste discharge in accordance with Chapter 67 of the County Code. Corrective action which has been addressed by T/C is prior to cited violations indicating inadequate knowledge of discharge characteristics and subsequent lack of effective corrective action measures. Furthermore, the T/C statement referencing a low pH between 1-3 PM

ORIGINA,

J. D. Jenkins y 7, 1984 Lage 2

on 4/16 is in conflict with a pH of 9.2 obtained by IWS staff. This discrepancy/may, indicate a T/C monitoring inaccuracy or a misinterpretation of the monitoring data. In either case, this is a major problem which cannot be overlooked.

In view of events indicated above, it is recommended that authorization be granted to acquire appropriate summonses for four (4) days of Code violation.



## TRANS/CIRCUITS, Inc.

3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405

ORIGINAL (Red)

April 27, 1984

Mr. Jimmie D. Jenkins County of Fairfax 4100 Chain Bridge Road Fairfax, Virginia 22030

Dear Mr. Jenkins:

In reply to your letter to our Mr. D. James Aaron on April 23, 1984, I am pleased to inform you that I have reviewed the reasons for PH violations with Talaat El-Hotiby, our Engineering Chemist. An explanation and actions that have been taken to correct these violations is as follows:

- 1. PH was 12.21 at 12:00 a.m. on 4/16/84 due to sulfuric acid running out in waste treatment area. ACTION TAKEN: 1. Plating process stopped immediately.
  - 2. Reorder point has been increased from 6 to 10 drums.
- 2. PH was 2.2 from 1:00 p.m. to 3:00 p.m. on 4/16/84 due to caustic valve not working properly. ACTION TAKEN: Replaced caustic valve.

If you have any questions regarding this information, please contact me. Thank you.

Very truly yours,

Keith V. MacKinnon Operations Manager

KVK/jgr

# Lapteff Associates

CONSULTING ENGINEERS
P. O. BOX 4150 • WOODBRIDGE VA 22194

July 22, 1985

Trans/Circuits, Inc.
P.O. Box 8248
3509 Carlyn Spring Road
Falls Church, Virginia 22041

Attention: Mr. Talaat El-Hotiby - Chemical Process Engineer

Subject : Laboratory Report

## Gentlemen:

Herewith are submitted analytical test results for four (4) waste water samples collected from the Trans/Circuit, Inc.. The samples were delivered to our laboratory July 17, 1985 and processed in accordance with <u>Standard Methods</u> and/or EPA approved analytical procedures.

Methods:		Tot	al Cyanide	SM 412 C
		Tot	al Lead	SM 303 A
New '	Section and A	Tot	al Copper	. SM 303 A
್ಯಾತ್ರ	•		al Chromium	EPA 218.1
		Tot	al Nickel	SM 303 A
		Tot	al Cadmium	SM 303 A
		· Tot	al Zinc	SM 303 A
		Tot	al Silver	SM 303 A

## Results were as follows:

Sample Designation	Parameter	and "	Analytical Results, mg/l
July 8, 1985	Total Cyanide		<0.4
July 9, 1985	Total Cyanide		<0.4
July 10, 1985	Total Cyanide		<0.4
July 11, 1985	Total Cyanide		<0.4

Office Cheef

T/c Total Metals-calculated from individual hourly readings (samples) according to flow 7/17-7/20

1/20	2.69	3.77	0.53	0.54
1/1/19	19.0	1.83	0.83	0.34
1/18	1.85	4.03	1.84	1.12
1 41/2	4.52	26.98	6.28	1.48
	Ç	3	 Z	Ph

# Lapteff Associates

CONSULTING ENGINEERS
P. O. BOX 4150 • WOODBRIDGE, VA. 22194

August 28, 1985

ORIGINA (Red)

Trans/Circuits, Inc. P.O. Box 8248 3509 Carlyn Spring Road Falls Church, Virginia 22041

Attention: Mr. Talaat El-Hotiby - Chemical Process Engineer

Subject : Laboratory Report

Gentlemen:

Herewith are submitted analytical test results for two (2) wastewater samples collected from Trans/Circuits, Inc. The samples were delivered to our laboratory August 26, 1985 and processed in accordance with <u>Standard Methods</u> and/or EPA approved analytical procedures.

Methods:	Total	Cyanide	SM 412 C	
		Lead	SM 303 A	
	Total	Copper	SM 303 A	
		Chromium	EPA 218.1	
	Total	Nickel	SM 303 A	
	· Total	Cadmium	SM 303 A	
	Total	Zinc	SM 303 A	
		Silver	SM 303 A	ij
			a rost of	.,

Results were as follows:

Analytical Results
Sample Designation

Parameter A = S-ATotal Cyanide, mg/l

Analytical Results
Sample Designation A = S-A< 0.4

4

Attn: Mr\_\_alaat El-Hotiby Subj: Laboratory Report August 28, 1985

	Analtyica	Results	
	Sample Des	signation	
Parameter	<u>A</u>	<u>S-A</u>	
Total Chromium, mg/l Total Nickel, mg/l	0.001 < 0.008	1.28 2.03	
Total Cadmium, mg/l Total Zinc, mg/l	< 0.001 0.014	<0.001 0.021	MAL
Total Silver, mg/l	< 0.002	< 0.002	,

Note: (<) denotes less than.

Respectfully submitted,

LAPTEFF ASSOCIATES

Alexander Lapteff, Ph.D. Principal Sanitary Engineer

A Set of



# TRANS/CIRCUITS, Inc.

P.O. BOX 8248 • 3509 CARLYN SPRING ROAD • FALLS CHURCH, VIRGINIA 22041 • PHONE: (703) 820-6405 TWX: 710-831-0637



## Analysis of Attachment "A"

21. PH Composite: Normal Range - 7.90- 9.49

2. PH Range: Normal except on August 15 - Range was 2.0 - 9.8

Please see the Waste Treatment Log Book and PH Effluent

Chart on the date.

3. Flow: Normal - 7,222 - 44,640 Gals.

4. Pollutant Toxic Inorganic - The quality of Final Effluent has been improved with some exception date (8-1-85) which show high copper.

A Both of

9.

. 3

Attachment "A"

Analysis Results of Composite Samples

of Waste Water Treatment - August 1985

				Pollutant Toxic Inorganic $(R_{eq})^{N_{A_i}}$							
Date	РН	PH Range	Flow by Gals	Copper	Lead	Chromium	Nickel		Zinc	Tota Meta	
-1-85	8.76	8.4-9.3	337,220	7.05	0.57	2.37	0.97	0.02	0.04	11.0	
-2 5	8.52	8.8-9.0	33,650	1.56	0.24	1.61	0.43	0.02	0.02	3.8	
-3-85	8.39	8.8-8.9	19,610	1.16	0.16	0.44	0.42	0.02	0.04	2.2	
-5-85	8.37	8.6-9.2	19,380	1.22	0.25	3.16	0.75	0.05	0.03	5.4	
3-6	8.79	8.4-9.1	30,240	2.49	.0.53	1.28	0.33	0.03	0.23	4.8	
7-85	8.47	-8.0-9.1	34,300	4.31	0.37	1.23	0.37	0.03	0.04	6.:	
3-8-85	9.09	6.2-10.0	32,750	1.69	0.32	0.51	0.45	0.02	0.03	3.(	
- 3-9-85	9.39	8.2-9.9	33,840	2.84	0.14	0.08	0.25	0.03	0.02	3	
3-10-85	9.49	6.6-9.8	23,130	1.31	0.08	0.18 °	0.16	0.02	0.02	1.7	
3-11-85	8.79	9.2-9.8	7,222	0.59	0.15	0.53	0.26	0.02	0.01	1.5	
-12-85	9.16	8.4-9.6	44,640	0.84	0.11	3.12	0.12	0.02	0.04	4.2	
-13-85	9.13	8.8-9.6	16,730	2.34	0.14	0.24	0.35	0.04	0.02	3.]	
-1 5	9.08	5.6-9.9	29,260	2.19	0.19	0.48	0.48	0.02	0.02	3.3	
-15-85	9.20	2.0-9.8	36,370	3.35	0.25	0.29	0.70	0.02	0.04	4.6	

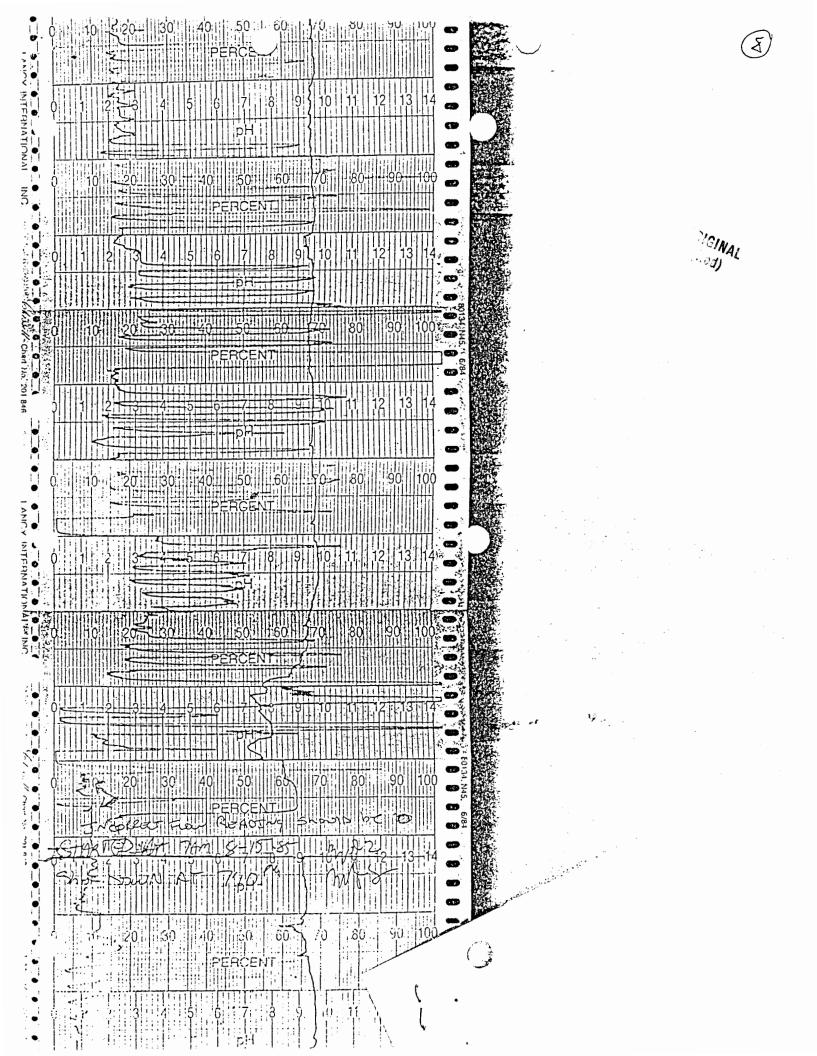
Note: The Analyses Results do not indicate any cyanide

Attachment "A"

Analysis Results of Composite Samples

of Waste Water Treatment - August 1985

	<del></del>	+		+								
				Pollutant Toxic Inorganic								
Date /	РН	PH Range	Flow by Gals	Copper	Lead	Chromium	Nickel			Tot		
8/16/85	9.07	9.0-9.4	31,210	2.50	0.24	0.33	0.28	0.03	0.04	3.4		
3, '85	7.90	6.4-8.2	12,390	0.88	0.42	0.18	0.17	0.04	0.05	1.74		
/20/85	8.15	7.0-8.4	30,750	0.412	0.19	0.30	0.071	0.04	0.05	1.06		
8/21/85	8.39	8.0-8.6	32,270	0.639	0.193	0.166	0.145	0.045	0.033	1.22		
9/2_, 85	8.05	7.6-8.2	24,140	3.225	0.290	0.337	0.100	0.105	0.213	4.27		
8/23/85	8.15	7.9-8.2		-0.542	0,12	0.11	0.23	0.01	0.05	1.06		
8/24/85	8.26	7.2-8.7	17,290	0.74	0.35	0.26	0.25	0.01	0.05	1.66		
3/26/85	8.82	8.9-9.0	31,090	0.55	0.035	0.06	0. <b>]</b> 45	0.002	0.042	0.83		
8/27/85	8.92	8.5-9.0	29,260	0.97	0.045	9.07	0.07	0.0015	0.038	1.19		
8/28/85	8.99	8.6-9.0	28,640	0.635	0.045	0.045	0.055	0.0015	0.044	0.87		
8/29/85	9.02	8.6-9.0	30,390	0.475	0.025	0.17	0.07	0.001	0.040	<b>×</b> 0.78		
8/30/85	8.81	8.6-9.0	29,700	0.485	0.03	0.650	0.18	0.02	0.02	1.38		
1 : 8	/19/85	- First Day f	or Lancy Sys	tem								



SPISINAL

Appendix D Manifests

## DNR MICHIGAN DEPARTMENT OF NATURAL RESOURCES

EDA Form \$700-22 (Rev. 4-85)

7.

DO NOT WRITE IN THIS SPACE
ATT. 

REJ. 

REJ.

1979,	200	emended	<b>an</b> u	Act	13C.	t	٨
1969.							

Failure to file is punishable under section 299.548 MGL or Section 10 of Act 136, PA. 1989.

Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  Signature  Month Da  Nonth Da  Signature  Month Da  Printed/Typed Name  Signature  Month Da  19. Discrepency Indication-Space  20. Fecility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in term 18.	Y		RM HAZAF TE MANIF		1. Generato	1 8 US EPA 10	No.	Manifes Document		a lie not	ation in the shaded required by Fe
S. Company Name  S. US EPA ID Number  S. US EPA ID Number  S. US EPA ID Number  S. State themsengers ID  State	20.	2509 C	TREETER,	THE.		2	March.	1. 数据 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		1187	6108
S. Designated Facility Name and Site Address  10. US EPAID Number  11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM Proper Shipping Name, Hazard Class, and Hazard Class, an	1 5	Trensporte	r L Company	Name	<u> </u>	6. PCP	18 0 2	3 3 6	100	esponer's Ph	one 202-030-
11. US DOT Description (including Proper Shipping Name, Hazard Class, and In Contamers In Including Proper Shipping Name, Hazard Class, and Including Proper Shipping Name, Hazard Class, and Including Proper Shipping Name, Hazard Class, and Including Proper Shipping Name, Hazard Class, and Including Proper Shipping Name, Hazard Class, and Including Name, Hazard Class, and Includ		DETRICE C	EMICAL W	DOTE STE		PEP	9 14 10	3151510		Newson & Pro	one
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and Home Total Quantity Home Total Description (Including Proper Shipping Name, Hazard Class, and Home Total Quantity Home Total Description (Including Proper Shipping Name Action of Shipping Name Action of Shipping Name Action of Shipping Name Action of Shipping Name Action of Shipping Name Including Name Action of Shipping Name Including		10580 J	SLINE MORE								
Concressive several to 1760  Concressive seve	1	1. US DOT D		luding Prope		me, Hazard	Class, and				Unit No.
15. Special Mending Instructions and Additional Information  16. Semenary Mending Instructions and Additional Information  17. Special Mending Instructions and Additional Information  18. DEMERATOR'S CERTIFICATION: I havely declare that the contents of this consignment are fully and accurately described above by proper ahaptoring name and are cleaselfled, sected, method, and labeled, and are in all respects in proper condition for transport by highway according to applicable instructional government reputations.  Unless I am a small quantity generator who has been examined by statute or regulation from the duty to make 8 waste minimization entification index Section of RCRA, late overtify, the later on the property of the pr	BENER					303112	32			BIGHAL S	
15. Special phending instructions and Additional Information  18. DEMERATOR'S CERTIFICATION: I have by occur that the contents of his consignment are fully and accurately described above by proper shipping name and are classified, pecied, marked, and labeled, and are in all respects in proper condition for transport by information of RCRA. I also certify that I have a program in place to reduce the volunte and toxicity of waste generated to the degree have determined to be economically be and have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to burnan health environment.  Printed/Typed Name  Signature  Signature  Month De  17. Transporter 1 Acknowledgement or Receipt of Materials  Signature  Month De  18. Transporter 2 Acknowledgement or Receipt of Materials  Signature  Month De  19. Discrepancy Indication.Space	A T O R	Ethi Tar Tar				14.70	1 20 00				
15. Special Hendling Instructions and Additional Information  18. BENERATOR's CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper embloring name and collegative, becked, marked, and leaded, and are in all respects in proper condition for transport by highway according to applicable inferentional and marked, and are in all respects in proper condition for transport by highway according to applicable inferentional prominent application and program in place to reduce the volume and boxicity of waste penerated to the degree I have determined to be economically be and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to burner health environment.  Printed/Typed Name  Signature  Month De  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Month De  18. Trensporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  Signature  Month De  19. Discrepancy indication.Space	C	¥ #			23.24.25	FAR CO.			6		
15. Special Heriding Instructions and Additional Information  16. BENERATUR'S CENTIFICATION: I hereby declare that the contents of hits consignment are bully and accurately described above by proper impropriately pecker, merited, and believed, and are in all respects in proper condition for transport by highway scoording to applicable international and national government regulations.  Unless I am a small quantity denerator who has been existingled by statute or regulation from the which is an international and national government regulations.  Unless I am a small quantity denerator who has been existingled by statute or regulation from the which is an internation certification is neder Section of RCRA, I also certify intert large a program in place to reduce the wolveine and toxicity of waste generated to the degree I have determined to be economically bis and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to lauman health environment.  Printed/Typed Name  Signature  Signature  Month De  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  Signature  Month De  Signature  Month De  19. Discrepancy Indication Space	đ	2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20 mm	EQE(B1,14)	Chilip		를 : 경기	1 1 1 1 2	
18. BENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  Unless I am a small quentity denerator who has been existingled by statute or regulation from the duty to make a waste minimization certification lander Section of RCRA. I also certify that I have a program in place to reduce the volunte and toxicity of waste generated to the degree I have determined to be economically be and I have selected the method of treatment, storage or disposal currently swallable to me which minimizes the present and future threat to luman health environment.  Printed/Typed Name  Signature  Signature  Month De  18. Transporter 1 Acknowledgement or Receipt of Materials  Printed/Typed Name  Signature  Month De  19. Discrepency indication.Space											or Amine 1/s
proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway solding to applicable international and national government regulations.  Unless I am a small quantity generator who has been enterprised by statute or regulation from the duty to make 8 waste minimization certification lander Section of RCRA, I also certify, that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ble and I have selected the method of treatment, storage or disposal currently evaluable to me which minimizes the present and future threat to lauman health environment.  Dat  Printed/Typed Name  Signature  Month De  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name  Signature  Signature  Month De  18. Transporter 2 Acknowledgement or Receipt of Materials  Signature  Month De  19. Discrepency, Indication Space	W (a)	5. Special H	inding Instruc	tions and Ad	ditional Infor	mation				É	
Unless I am a small quantity generator who has been exampted by statute or regulation from the duty to make a waste minimization certification lander Section of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically ble and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health environment.    Dat	-	proper shippi	ng name and are o	classified, packet	i, marked, and le	beled, and are i	signment are full in all respects in	b and accurate proper cond	ely describe	above by sport by highway	
Printed/Typed Name  17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Egped Name  18. Transporter 2 Acknowledgement or Receipt of Materials  Printed/Typed Name  19. Discrepancy Indication-Space  20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in term 19.		Unless I am a of RCRA, I als	small quantity ge so certify that I ha	enerator who has	been exampted	by statute or re	toxicity of waste	e generated to	the decree :	have determined	i to be aconomically p
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Required under authority of Act 64, PA. 1979, as amended and Act 136, PA. 1969.

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TRANS CIRCUITS INC.	pires 7-31-86 led areas Federal
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REPORT ANY UNRECOVERED DIS-	REPORTABLE QUA	NTITY VALUE	CHEM T	REC		800-424-9300		PLACARDS PROVIDED
CHARGE EQUAL TO OR IN EXCESS OF EACH HAZARDOUS WASTE ASSIGNED	1 = 5000 LBS.	4 = 10 LBS.	EPA HO	TLINE	_	800-424-9346	<b>-</b>	TROVIDED
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#### HAZARDOUS WASTE MANIFEST

Department of Health and Mental Hyglene

Office of Environmental Programs

Waste Management Administration • Hazardous Waste Division P.O. Box 13387 • Baltimore, Maryland 21203

(Rec

Date Month Day Yes

Form Approved, OMB No. 2000-0404, Expires 7-31-86 (Form designed for use on elite (12-pitch) typewriter.) Manifest 1. Generator's US EPA ID No. UNIFORM HAZARDOUS Information in the shaded areas is not required by Federal law. WASTE MANIFEST 5-5700 nights, and Holidays at (301) 243-8700. 3. Generator's Name and Mailing Address mifest Document Number B. State Generator's ID E. State Transporter's HWH I-FI F. Transporter's Phone G. State Fecility ID H. Facility's Phone Total Unit Type Quentity ₩₩ 3 Maryland OEP ŧ R A T immediately call the National Response Center at (800) 424-8802 J. Additional Descriptions for Materials Listed Above 15. Special Handling Instructions and Additional Information eby declare that the contents of this ent are fully and accurately describ proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and Maryland Statutes or Regulations. Unless I am aremail quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. Printed/Typed Name Acknowledgement of Receipt of Materials 17. Transporter 1 TRANSPORTER apin, 1 5 18. Transporter Acknowledgement of Receipt of Materials vency Month Day Printed/Typed Name 19. Discrepancy Indication Space CASA OF 20. Facility Owner or Operator: Certification of receipt of hazastrous materials covered by this manifest except as noted in Item 19.



## EASTERN CHEMICAL WASTE SYSTEMS

management of environmental preservation TM

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only: 2619 Evarts Street, N.E. Washington, D.C. 20018

April 17, 1986

Mailing address:

B.D. Box 13085

Washington, D.A. 20009

Mr. Roger Stix Vice President - Corporate Planning Transitron Electronics Corporation 100 Unicorn Park Drive Woburn, MA 01801

Dear Roger:

This letter is to follow up on our previous communications. As you know, ECWS has been -- and remains -- ready, willing and able to proceed with the Trans Circuits cleanup project. ECWS shall continue to await your instructions. In the interim, there are a couple of concerns that I would like to address.

First, the escrow deposit of \$4,621.00 for work to be in weeks five (5) and six (6) has not been made. This is inconsistent with the terms of section 5.2 of the Agreement. Second, based upon the appearance of portions of the concrete, we believe that Trans Circuits' testing of the concrete may have bypassed the "hot spots." This, in turn, could give an is of the concrete free inaccurate impresssion that We recommend that additional testing be done to contamination. That testing may also suggest how resolve this issue. approach the disposal of the one-hundred (100) drums of concrete which ECWS is guaranteed by section A.l of the Scope of Work.

I look forward to hearing from you.

Sincerely,

Mark . Soresi, chemist

President

EASTERN CHEMICAL WASTE SYSTEMS

RST.MS:rts

cc: Mr. Norb Dickmann, Project Manager

Elizabeth, NJ: (201) 352-6550 New York, NY: (212) 242-3349

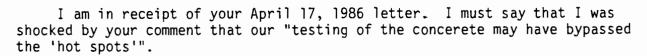
## TRANS/CIRCUITS, INC.

3509 Carlyn Spring Road, Falls Church, Virginia 22041 (703) 820-6405

April 24, 1086

Mr. Mark V. Soresi President Eastern Chemical Waste Systems 2619 Evarts Street, N.E. Washington, D.C.

Dear Mark:



During the meeting with you and Norb Dickmann held on March 6, 1986 at which we, along with Larry Mock, jointly identified the locations to test, I agreed to test all of the locations you recommended. In fact, I suggested several additional locations which may have been "hot" which you did not recommend to test.

After we selected the areas to sample, neither you nor Norb expressed any concern that we had overlooked areas that should be tested. Additionally, in your letter to me dated March 13, 1986 in which you informed us of the test results, you did not mention any concerns about our testing locations, nor did you during our numerous telephone conversations. In fact, during the telephone conversation we had during which you orally gave me the test results you sounded pleased with the results and were of the opinion that the concrete was not contaminated.

Both Larry Mock and I are at a loss... We do not understand your motives for making this type of a statement. Since it is contained in your second paragraph which deals with your desire to do more work for us and the disposal of additional waste, I assume the comment was motivated by economic not environmental concerns.

Sincerely,

TRANS/CIRCUITS, INC.

Roger B. Stix Vice President



### EASTERN CHEMICAL WASTE SYSTEMS

management of environmental preservation TM

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only: 2619 Evarts Street, N.E. Washington, D.C. 20018 May 21, 1986

Mailing address: P.O. Box 13085 Washington, D.C. 20009

Mr. Roger Stix Transitron Electronics Corporation 100 Unicorn Drive Woburn, MA ORIGINAL (Red)

Dear Roger:

I am sorry you were upset by my letter of April 17, 1986 where I advised more testing of the Concrete Pad for heavy metal contamination.

Be assured that our motives in suggesting additional testing are not economic. The only additional expense involved would be the cost of the labor and analytical work, neither of which involve any high profit for ECWS.

ECWS is guaranteed in our contract the disposal of a minimum 100 drums of concrete from the pad. Our concern is that proper characterization be made of the concrete pad so that we can determine the appropriate method of disposal for these 100 The preliminary testing would have been drums of concrete. adequate for this characterization had it shown the material to be clearly E.P. toxic. The low results for the 21 samples do not preclude the potential for E.P. toxic levels heavy metals in the top 1/4 of concrete, in the sand under the It makes environmental sense to have pad or elsewhere. dispose of 100 drums of material taken from the worst areas rather than material taken at random or by guesswork. proposal for additional sampling and analysis to pinpoint these hotspots will be forwarded to you shortly.

Sincerely,

Mark V. Soresi, chemist

President

TNS.MS:rts

Toll Free: 1-800-826-0518	Main Office in DC: (202) 636-9555					
New York Office: (212) 242-3349	Pittsburgh Office: (412) 941-1229					
Elizabeth, NJ: (201) 352-6550	Baltimore, MD: (301) 625-2500					
Eastern Chemical Waste Systems is a division of TSCGI						



#### EASTERN CHEMICAL WASTE SYSTEMS



management of environmental preservation TM

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only: 2619 Evarts Street, N.E. Washington, D.C. 20018 March 13, 1986

Mailing address: P.O. Box 13085 Washington, D.C. 20009

Mr. Roger Stix Transitron Electronics Corporation 100 Unicorn Park Drive Woburn, MA 01801

Dear Roger:

Enclosed are the results of EP Toxicity tests performed on 21 samples of concrete. These samples were taken by core drill up to a depth of two inches at various locations on the plating line pad.

Column A below lists the highest level found in any sample for each heavy metal. For your information, I have provided the levels that are regulated by the USEPA as hazardous waste in Column B.

	A		В	
Arsenic Barium Cadmium Chromium Lead Mercury Selenium	0.03 3 0.10 1.0 4.9 0.01 0.01	PPM PPM PPM PPM PPM PPM	5.0 PPM 100 PPM 1.0 PPM 5.0 PPM 5.0 PPM 0.2 PPM 1.0 PPM	
Silver	0.04	PPM	5.0 PPM	i

In no case did the level of regulated metals in the samples exceed the EPA lower limits.

As you can see, the only metal where you approach the limits is in the case of lead. Only 2 samples exceed half of the regulated lower limit for lead; sample 10 at 3.7 PPM and sample



Mr. Roger Stix March 13, 1986 Page Two ORIGINAL (Red)

20 at 4.9 PPM. These samples were taken from next to the tin/fluoroborate tank and from the wall of the waste water pit, respectively.

If you have any questions about the results of these samples, please don't hesitate to call.

Sincerely

Mark W Soresi

President

EASTERN CHEMICAL WASTE SYSTEMS

STIX2.MS:rts Enclosures



## EASTERN CHEMICAL WASTE SYSTEMS

management of environmental preservation TM

Remedial Action, Handling, Underground Tank Clean-up & Removal, Hauling, Incineration, Disposal, Drum Crushing, Recycling, Emergency Spill Response, Laboratory Analytical Services, Detoxification USEPA IDENTIFICATION NO. DCD981035504

Facility address/shipping only: 2619 Evarts Street, N.E. Washington, D.C. 20018

#### CERTIFICATE OF ANALYSIS

Mailing address: P.O. Box 13085 Washington, D.C. 20009

REPORT #:

860751

REPORT DATE: 3/6/86

CUSTOMER:

Transcircuits

PAGE 1 of 5

REPORT TO:

Mr. Roger Stix

SAMPLE ID #: TCEP

EP TOXICITY	TCEP-01	TCEP-02	TCEP-03	TCEP-04	
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01	٠
Barium (Ba)	< 1	< 1	< 1	< 1	
Cadmium (Cd)	0.10	0.05	0.03	0.01	
Chromium (Cr)	0.1	0.4	0.1	0.4	
Lead (Pb)	0.1	< 0.1	< 0.1	< 0.1	
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	
Silver (Ag)	< 0.01	0.04	< 0.01	< 0.01	

NOTE: The above results are expressed in mg/liter of extract (PPM).

Elizabeth, NJ: (201) 352-6550

New York, NY: (212) 242-3349



REPORT #: 860751 REPORT DATE: 3/6/86

ORIGINAL (Red)

CUSTOMER:

Transcircuits

PAGE 2 of 5

REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

EP TOXICITY	TCEP-05	TCEP-06	TCEP-07	TCEP-08
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	3	1	< 1	< 1
· Cadmium (Cd)	0.03	0.01	0.01	0.01
Chromium (Cr)	0.2	0.2	1.0	0.2
Lead (Pb)	1.2	0.4	2.4	< 0.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01

The above results are expressed in mg/liter of extract (PPM).



REPORT #: 860751

REPORT DATE: 3/6/86

CUSTOMER: Transcircuits PAGE 3 of 5

REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

EP TOXICITY	TCEP-09	TCEP-10	TCEP-11	TCEP-12
Arsenic (As)	< 0.01	0.03	< 0.01	< 0.01
Barium (Ba)	2	1	< 1	< 1.
. Cadmium (Cd)	0.01	0.01	0.01	0.02
Chromium (Cr)	0.2	0.8	0.3	0.3
Lead (Pb)	< 0.1	3.7	0.1	0.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01

The above results are expressed in mg/liter of extract NOTE: (PPM).



REPORT #:

860751

REPORT DATE: 3/6/86

CUSTOMER: Transcircuits

PAGE 4 of 5

REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

EP TOXICITY	TCEP-13	TCEP-14	TCEP-15	TCEP-16
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	1	< 1	2	< 1
· Cadmium (Cd)	0.02	0.01	0.01	0.01
Chromium (Cr)	0.2	0.2	0.3	0.1
Lead (Pb)	0.1	0.1	< 0.1	0.2
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract (PPM).



REPORT #:

860751

REPORT DATE: 3/6/86

CUSTOMER:

Transcircuits

PAGE 5 of 5

REPORT TO: Mr. Roger Stix

SAMPLE ID #: TCEP

EP TOXICITY	TCEP-17	TCEP-18	TCEP-19	TCEP-20	TCEP-21
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	2	< 1	< 1	1.	1
· Cadmium (Cd)	0.01	0.05	0.01	0.02	0.02
Chromium (Cr)	0.1	0.4	0.2	0.5	0.3
Lead (Pb)	0.1	1.1	0.2	4.9	0.2
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract (PPM) .

EASTERN CHEMICAL WASTE SYSTEMS

STIXTST.ANA:rts

MEMBER
AMERICAN ASSN.
FOR
LABORATORY
ACCREDITATION

## GASCOYNE LABORATORIES, INC.

**BALTIMORE, MARYLAND 21202** 

BALTIMORE (301) 539-0195 SALISBURY (301) 543-1051

2 (301) 543-10

#### **CERTIFICATE OF ANALYSIS**

CASCOSTE LABOR

ORIGINAL (Ver)

Report No. 86-0675-2

Report to: Eastern Chemical Waste Systems

Report Date \_\_\_\_3-6-86

Sample I.D. Concrete samples marked as below:

EP TOXICITY	TCEP-07	TCEP-08	TCEP-09	TCEP-010	TCEP-011	TCEP-012
Arsenic (As)	< 0.01	< 0.01	< 0.01	0.03	< 0.01	< 0.01
Barium (Ba)	< 1	< 1	2	1	< 1	< 1
Cadmium (Cd)	< 0.01	0.01	0.01	0.01	0.01	0.02
romium, Total(Cr)	1.0	0.2	0.2	0.8	0.3	0.3
Lead (Pb)	2.4	< 0.1	< 0.1	3.7	0.1	0.1
Mercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01 '	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract.

GASCOYNE LABORATORIES, INC.

and the experiment of the expe

FOR LABORATORY ACCREDITATION

## GASCOYNE LABORATORIES, INC.

**BALTIMORE, MARYLAND 21202** 

BALTIMORE (301) 539-0195 SALISBURY (301) 543-1051

#### **CERTIFICATE OF ANALYSIS**

GASCOSTE LABOS

ORIGINAL (Red)

Report No. 86-0675-3

Report to: Eastern Chemical Waste Systems

Report Date 3-6-86

Sample I.D. Concrete samples marked as below:

EP TOXICITY	TCEP-013	TCEP-014	TCEP-015	TCEP-016	TCEP-017	TCEP-018
Arsenic (As)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Barium (Ba)	1	< 1	2	< 1	2	< 1
Cadmium (Cd)	0.02	0.01	0.01	0.01	0.01	0.05
Chromium, Total (Cr)	0.2	0.2	0.3	0.1	0.1	0.4
Lead (Pb)	0.1	0.1	< 0.1	0.2	0.1	1.1
ercury (Hg)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Selenium (Se)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Silver (Ag)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

NOTE: The above results are expressed in mg/liter of extract.

GASCOYNE LABORATORIES INC



## GASCOYNE LABORATORIES, INC.

**BALTIMORE, MARYLAND 21202** 

BALTIMORE (301) 539-0195

SALISBURY (301) 543-1051

#### **CERTIFICATE OF ANALYSIS**

ORIGINAL (Red)

Report No.

86-0675-4

Report to:

Eastern Chemical Waste Systems

Report Date.

3-6-86

Sample I.D. Concrete samples marked as below:

EP	TOXICITY	T	CEP-019	T	CEP-020	T	CEP-021
	Arsenic (As)	<	0.01	<	0.01	<	0.01
	Barium (Ba)	<	1		1		1
	Cadmium (Cd)		0.01		0.02		0.02
	Chromium, Total (Cr)		0.2		0.5		0.3
	Lead (Pb)		0.2		4.9		0.2
	Mercury (Hg)	<	0.01	<	0.01	<	0.01
	Selenium (Se)	<	0.01	<	0.01	<	0.01
	Silver (Ag)	<	0.01	<	0.01	<	0.01

The above results are expressed in mg/liter of extract.

CASCOYNE LABORATORIES, INC.

We consider submitted samples and analysis



## DO NOT WRITE IN THIS SPACE ATT. DIS. REJ. REJ.

Failure to file is punishable und	er <sup>*</sup>
section 299.548 MCL or Section	10 o
Act 136, P.A. 1969.	

UNIFORM HAZARDOUS	enerator's US EPA ID No.	Manifest		nation in the shaded ar
, ONI ONI HAZARDOOS	A D   0   4   1   9   6   2 0   3   6   0	cument No		ot required by Fede
3. Generator's Name and Mailing Address	LARRY MOCK C/O			Document Number
TRANS CIRCUITS	Zimini Mock Cyo		₩ 1084	
3509 CARLYN SPRINGS RD, FALLS	CHIDCH VA 22041			or's ID space and the
1 1	, Choken, VA 22041			
4. Generator's Phone (703 820-6405 5. Transporter 1 Company Name	6. US EPA ID Nu			ter's ID
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7 Transporter 2 Company Name	8. US EPA ID Nu			ter's ID
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9. Designated Facility Name and Site Addres	ss 10. US EPA ID Nu	_	G. State Facility's	
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11. US DOT Description (including Proper Ship HM ID NUMBER).	ping Name, Hazard Class, and	1	Total	Unit No.
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J. Additional Descriptions for Materials List			K. Handling Codes	s for Wastes a/
b. Cuso4 and Mixed Acids	Is w! Hoavy Metals			b/a c/a d/
15. Special Handling Instructions and Addition	al Information			¥ 1
				WA A Ja
18. GENERATOR'S CERTIFICATION: I hereby declare that proper shipping name and are classified, packed, mark	the contents of this consignment are fully a	nd accurately de	scribed shove by	
according to applicable international and national gove Unless I am a small quantity generator who has been of RCRA, I also certify that I have a program in place to ble and I have selected the method of treatment, stora environment.	rnment regulations. exempted by statute or regulation from the do preduce the volume and toxicity of waste ge	uty to make a w	vaste minimization cer	tification under Section 30
Printed/Typed Name	NA Signature	-\-	1	Month Day
LARRY D.	MOCK Du	~ ). [/	10-	10/2/19/
17. Transporter 1 Acknowledgement of Receipt	1015 Materials	1	. Y	Date
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Bob Lactucción	J. O. T.	()	<b>.</b> .	1921191
18 Transporter 2 Acknowledgement or Receipt	306 Materials	مي		Date
Printed/Typed Name	Signature			Month Day
Z AR AN	30304 0		· · · · · · · · · · · ·	
19. Discrepancy Indication Space	S. S.			
CERETAIN OF	915141511	·		
20 Facility Owner or Operator: Certification of relitem 19.	ceipt of hazardous materials covered	by this man	ifest except as not	ed in
Printed/Typed Name	Signature			Date Month Day

	ORIGINAL (Red) -	
UNIFORM HAZARDOUS WASTE MANIFEST VADO41	0 6 2 0 · 3 · 6 0 · 1 · 1 · 5 · 0	2. Page 1 Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address LARRY, MOCK C/O		A. State Manifest Document Number
TRANS CIRCUITS INC.  3509 CARLYN SPRING RD, FALLS CHURCH, V	A 22041	B. State Generator's ID
4. Generator's Phone (703 )820-6405  5. Transporter 1 Company Name 6.	US EPA ID Number	Cr State Transporter's ID
	D 9 8 0 8 2 8 8 6 7	Dy Transporter's Phone 202:636-9555
7. Transporter 2 Company Name 1	us EPA ID Number	E State Transporter's ID 4
P. Designated Facility Name and Site Address: 10.	US EPA ID Number	f_Tronsperier's Phone 202-636-9555
ENVIRONMENTAL ENTERPRISES, INC.	US EFA ID NUMBER	C State Facility's ID
4650 SRPING GROVE AVENUE		H. Fealby's Phone
CINCINNATI OH 45232	H. D. O. 8.3 .3 .7 .7 O 1 O	513 541 1823 124
13: US DOT Description (Including Proper Shipping Name, Hazard Class, a)	nd ID Number) - 12. Conta	Type Quantity Wt/Vol World No. 7
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Waste Hazardous Liquid NOS	A47	01/25
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16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this co		
- marked, and labeled, and are in all respects in proper condition for transport by  Unless I am a small quantity generator who has been exempted by statute or regule	•	
that I have a program in place to reduce the volume and taxicity of waste gener	ated to the degree I have determined to be e	conomically practicable and I have selected the method of
treatment, storage, or disposal currently available to me which minimizes the	present and future threat to human heat	th and the environment.
Printed/Typed Name	Signature	P / Month Day Year
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7 17. Transporter 1 Acknowledgement of Receipt of Americals A	Signature	Month Day Year
5 B Transporter 2 Acknowledgement of Registry of Material 14 70 70 70 70 70 70 70 70 70 70 70 70 70	1 Doldael.	1672486
	<b>σ</b> )	
T Printed/Typed Name	Signature	Month Day Year
A County of the last	<del>y</del>	
19. Discrepancy Indication Space	1	
(19) 1191 C/D/C		
c L		
J. Facility Owner or Operator: Certification of receipt of hazardous material	als covered by this manifest except as n	oted in Item 19.
T Printed (Treed Name	I sianatura	Month Day Year
Printed/Typed Nome	Signature	•   •   •
		The second secon

20. Facility Owner or Operator: Certification of receipt of hazordous materials covered by this manifest except as



#### State of New Jersey **Department of Environmental Protection Division of Waste Management** CN 028, Trenton, NJ 08625 Please print or type. (Form designed for use on elite (12-pitch) typewriter.)



Form Approved. OMB No. 2000-0404. Expires 7-31-86

UNIFORM HAZARDOUS WASTE MANIFEST	1 · Gonerator's US EF			143	2 Page 1		on in the shaded areas quired by Federal law *
	MOCK c/o				A State Man Document Nu		<b>A013184</b>
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4 Generator's Phone ( 703 ) 820-6405		2.2.9		4 92	1,1K 3.971 E	E	N WO THE
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16 GENERATOR'S CERTIFICATION: I hereby declare that the c	contents of this conside	ment are fully and	accurately describe	d above by pe	noer shironno nar	ne and are classifie	d.
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of RCRA, I also certify that I have a program in place to rethin and I have selected the method of treatment, storage, or dispo	ice the volume and to:	ricity of waste gene	erated to the degre	e I have deter	mined to be eco	nomically practicab	le
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# MICHIGAN DEPARTMENT

DO NOT WRITE IN THIS SPACE

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A.

Failure to file The France under section 299.548 MC (Afction 10 of Act 136, P.A. 1964 ed)

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ERC		16. GENERATOR'S CERTIFICATION: I hereby declare that the conte	ents of this c	onsignment i	are fully and	accurately c	escribed	above by	,	
. ₹		<ul> <li>proper shipping name and are classified packed, marked, and is according to applicable international and national government in</li> </ul>	abeled, and a	are in all resp	ects in prope	r condition	for trans	sport by highway		
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5		Unless I am a small quantity generator who has been exempted of RCRA, I also certify that I have a program in place to reduce	i by statute o the volume a	or regulation to no toxicity of	from the duty	to make a rated to the	waste m decree l	inimization certification	cation und	fer Section 3002(b)
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- <del>2</del> -		environment.		<u> </u>			1::			D-12
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ALL SPILLS MUST BE REPORTED TO THE CENTER AT 1-800-424/	i l			<del></del>						
42	i	20. Facility Owner or Operator: Certification of receipt o	i hazardou	is materials	covered b	y this ma	nitest∜	except as poret	14 A 3 -	· · · · · · · · · · · · · · · · · · ·

# DNR MICHIGAN DEPARTMENT OF NATURAL RESOURCES

REPROPTED TO THE MICHIGAN POLLUTION EMERGENCY ALENTING SYSTEM, IN MICHIGAM AT 1-860-282-4706 OR OUT OF STATE AT 817-473-1960 AND THE NATIONAL RESPONSE

ALL SPILLS MITTER

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ATT.	3 ;	DIS.		: '	REJ.	

Required under authority of Act 64, PA 1978, as amended and Act 136, PA. 1989.

Failure to file is punishable under section 299.848 MCL or Section 10 o Act. 136, P.A. 1969.

**\_** 

Month Day

sase print or aros	Form Approved OMB No. 2000	0-0404 Expires 7-31-86
UNIFORM HAZARDOUS   Generator's US EPA ID No.   Manifest   Document No.	2. Page 1 Information in is not requ	the shaded areas ired by Federal .
3. Generator's Name and Mailing Address LAND BOCK CAD	The state of the s	
TRANS CERESTIS INC.	PULL THE SAME	
3509 CHELTE SPRINGS NO. FALLS CHUNCK, VA 22041	and a second	
4. Generator's Phone ( 703 ) 836-6405	a the same was rely as a series	
5. Transporter Company Name 6. US EPA ID Number	AND STATE OF THE PARTY OF THE P	
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EASTERN CHEMICAL MASTE STETMES   D CD 9 8 12 10 3 15 15 10 14	Valour District Adams and A	
9. Designated Facility Name and Site Address 10. US EPA ID Number		of 1
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11. US DOT Description (including Proper Shipping Name, Hazard Class, and		
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15 Special Handling Instructions and Additional Information	<b>X</b>	
	7 1 7 1	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately d proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition according to applicable international and pational government regulations.		. 1
Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a	waste minimization partification	under Section 3002(b)
of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the ble and I have selected the method of treatment, storage or disposal currently available to me which minimizes to	degree-i have determined to be a	conomically practica-
environment.	ino present and totals three to	
Printed/Typed Name Signature	1	Month Day Year
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17. Transporter 1 Acknowledgement of Receipt of Materials		Date
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ega.	-	UNIFORM HAZARDOUS 1. Generator V. A. D. O.	D. 4. 1. 9. 6. 2. 0. 3. 6	Monifest Occument No.	2. Po		tion in the shaded ereas is uired by Federal law.
š	3.	Generator's Name and Mailing Address LARRY MOCK		2, 2, 0, 0	A.S.	cie Marifort Progr	pad Number In 19
		TRANS CIRCUITS INC.		••		<b>61</b> 161	The state of the s
	1.	3509 CARLYS SPRINGS RD, FALLS CHU	JRCH, VA 22041		3. Sec	ote Quagastof's ID	
		Generator's Phone ( 703 ) 820~6405	6. US EPA ID Numbe		6.3	este Transporter's IO	
11	i	Transporter 1 Company Name  EASTERN CHEMICAL WASTE SYSTEMS	6. US EPA ID Numbe			7,	
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	l l	EASTERN CHEMICAL WASTE STETENS	D CD.9.8.1.0.3.		E. Zap	posporter's Phone	202 636-9535
		Designated Facility Name and Site Address	10. US EPA ID Numbe			Telling LD.	
		ENVIRONMENTAL ENTERPRISES INC.	• •		10.00	P. 12.	
	ı	4650 SPRING GROVE AVENUE	·	1 0		scility's Phone	
1		CINCINNATI, OH 45232	O.E.D.Q.8.3.3.7.	.7 .0 .1 .0			14
11	Ι.	. US DOT Description (Including Proper Shipping Name, Hezard	Class, and ID Number)	No.	Type	Total	Unit Wt/Vol Waste No.
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11	10.	GENERATOR'S CERTIFICATION: I hereby declare that the contents morked, and labeled, and are in all respects in proper condition for tro	s of this consignment are they provide applic	policing motion	above a	y proper shipping national governmenta	ine and are datemen, process, at regulations.
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11		that I have a program in place to reduce the volume and toxicity of wa treatment, storage, or disposal currently available to me which min					I have selected the method or
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-	19.	Discrepancy Indication Space		<u>~</u>		3.4	
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:   		Facility Owner or Operator; Certification of receipt of hazardor		est except as r	noted in	Hem 19.	
1	1	Printed/Typed Name	. Signature	€.			Month Day Year

T 1-800-292-4706 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE

ING SYSTEM, IN P

BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY AL424-8802 24 HOURS PER DAY.

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Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136. PA. 1969.

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4. Generator's Phone ( 703 ) 820-6405												
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1	-		Waste Oil, NOS									
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	J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes   a/											
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MICHIGAN DEPARTMENT OF NATURAL RESOURCE	

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1979, as amended and Act 136 PA 1969. Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, PA 1999

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3. Generator's Name and Mailing Addi	ress LARRY MO	OCK c/o			A. S			nent Numbe	٢
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16. GENERATOR'S CERTIFICATION: I hereby decia	ere that the contents of	this consignment a	re fully and	accurated	describe	d above by			
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19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification Item 19.	n of receipt of haza	rdous materials	covered b	y this ma	nifest	except as n	oted in		
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# DNR MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO	NOT	WRITE	IN T	HIS SPA	CE
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Required under authority of Act 64, r 1879, as amended and Act 136, P.A. 1989.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

#### ORIGINAL

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- DIS. 🗆 REJ. 🗆 ATT.

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

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9. Designated Facility Name and Site Address	O. US EPA ID Nu	mber		te Facility's H	
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# MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1989.

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	4. Generator's Phone (703) 820-6405	214		- Same	enerator's ID	
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	UNIFORM HAZARDOUS 1. Generator	's US EPA ID No.	Manifest	2. Pag	e 1 Informati	ion in the	e shad
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1	TRANS CIRCUITS INC. 3509 CARLYN SPRINGS RD. FALLS CH	MIDCH VA		S. Sec	= 1130 A		
	4. Generator's Phone ( 703 )820-6405	JOKCH, VA		,	88	щe	istor Paris
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$\ \cdot\ $	EASTERN CHEMICAL WASTE SYSTEMS	DC.D.9.8.0.8					636-
Ш	7. Transporter 2 Company Name	8. US EPA ID		-	te Transporter's ID		
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	ENVIRONMENTAL ENTERPRISES, INC. 4650 SPRING GROVE AVENUE			H. For	skry's Phone	12	
-	CINCINNATI OH 45232  11. US DOT Description Uncluding Proper Shipping Name, Hazard	Class and ID Number	12. Con		13.	14.	37.
edo.	HAM	CIASS, BIRU ID HORNOWY	No.	Туре	Total Quantity	Unit Wt/Vol	* W
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	16. GENERATOR'S CERTIFICATION: I hereby declare that the content	ts of this consignment are fully as	od accurately described	<del>/c</del>	<del></del>		X-0/
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			make a waste minimiza	ation certi			
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	3. Generator's Name and Mailing Address. LARRY MOCK of TRANS CIRCUITS INC.	c/o	- Te		Manifest Docum		ber N
	3509 CARLYN SPRINGS RD, FALLS CHUI	RCH, VA			Generator's ID	1. 18	
	4. Generator's Phone ( 703 )820-6405 5. Transporter 1 Company Name	6. US EPA ID N	under -	State	Same *** Transporter's ID	£	***
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	EASTERN CHEMICAL WASTE SYSTEMS	DC.D.9.8.1.0	·3 ·5 ·5 ·0 ·4	f. Franc	sporter's Phone 2	02 6	36-9555
	9. Designated facility Name and Site Address ENVIRONMENTAL ENTERPRISES, INC.	10. US EPA ID N	lumber ,	G. Stat	• Facility's ID		**************************************
	4650 SPRING GROVE AVENUE CINCINNATI, OH 45232	OHD 0 8 3 3		*	ity's Phone		
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	Additional Descriptions for Materials Listed Above	es Rettal Pa		K. Hone	ling Codes for W	4757g	and Above
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	15. Special Handling Instructions and Additional Information			· [	NOV 15 RECE DEPARTM WASTE MA	IVED	ENT 23
	15. Special Handling Instructions and Additional Information  16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of marked, and labeled, and are in all respects in proper condition for transport that I have a program in place to reduce the volume and taxicity of waste treatment, storage, or disposal currently available to me which minim	port by highway according to our or regulation from the duty to many e generated to the degree I ha	applicable internations nake a waste minimizat ave determined to the	above by all and nati	DEPARTA WASTE MA WASTE MA DEPARTA WASTE MA DEPARTA WASTE MA DEPARTA DEPARTA WASTE MA DEPARTA D	NENT OF ANAGEM	re close led, po
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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

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,	18. Transporter 2 Acknowledgement or Receipt of Materials	7	Date
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Printed/Typed Name

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Date Month Day Year

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WASTE MANIFEST	anifest Iment No.	22. Pa	required		shaded areas is <del>not</del> erol low.
23. Generator's Name  MR. LARRY MOCK c/o	لـــــــــــــــــــــــــــــــــــــ		Manifest Docume		ber 774341
TRANS CIRCUITS 3509 CARLYN SPRINGS RD. FALLS CHURCH, VA		M. Sta	te Generator's ID		
24. Transporter Company Name			e Transporter's ID nsporter's Phone	ND-	XH83M6
26. Transporter 2 Company Name . 27. US EPA ID Number		$\overline{}$	e Transporter's ID		
28. US DOT Description (Including Proper Shipping Name, Mazard Class, and ID Number)	29. Conto		30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
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S. Additional Descriptions for Materials Listed Above  L. Boric Acid Powder  C. Dickel Carbonite  L. Boric, Citic + Oxalic Acid Powder.		T. Hand	ling Codes for Wa	stes Liste	ed Above
32. Special Handling Instructions and Additional Information					
33. Transporter Acknowledgement of Receipt of Materials Signature	カノー	17	9 1		Date
Transporter Acknowledgement of Receipt of Materials	Kla	7	rely	for the	Date Date
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35. Discrepancy Indication Space



In case of an emergency or split, immediately call the National Hesponse Center at (BUU) 124 COUL and HISH III.

## HAZARDOUS WASTE MANIFEST

Department of Health and Mental Hygiene Office of Environmental Programs

Waste Management Administration • Hazardous Waste Division
P.O. Box 13387 • Baltimore, Maryland 21203

	P.U. BOX 133	67 • Baillinoie, Maryia	1110 2120	JS						
Please print or type. (Form designed for use of	on elite (12-pitch	) typewriter.)	For	n Appr	oved. Ol	MB No.	2000-0	404, E	xpires :	7-31 <b>-</b> 86
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20. Facility Owner or Operator: Certification Item 19.	of receipt of haze	erdous materials covered by this	manifest	except	as noted	in .	-			
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## READ INSTRUCTIONS ON BACK OF MANIFEST

DO NOT WRITE IN THIS SPACE

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MICHIGAN DEPARTMENT	
OF NATURAL RESOURCE	S

19.292.4708 OR OUT OF STATE AT 817.373.7860 AND THE NATIONAL RESPONSE

'Q SYSTEM, IN MICHIDAN

. REPORTED TO THE MICHIDAN POLLUTION EMENGY ALE. 424-8502 24 HOURS PER DAY.

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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Date

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Month Day

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9.	Designated Facility Name and Site Address	10. US EPA ID Num		G. State Fa			<u> </u>				
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ייו	1. US DOT Description (Including Proper Shipping Name, Hazard C	less, and ID Number)	No.	1 _	Total Quantity	Unit Wt/Vol	l. Waste No				
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ř.	X Waste Sodium chlorite		22	CF	ہے یہ ا	-					
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Б b.		) es /					10002				
2	Oxidiner UN2032	rosive Lyund	, 606	DM ·	330	G					
A   c.		<u> </u>		D19			<del>D001</del>				
7	Waste Hydrogen Peroxide Soluti	on.	006		~~						
١_	X Oxidizer UN2014		0.0.6	DM ·	·330	G	D001				
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. 1	Waste Phosphotic Acid										
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ALERTING SYSTEM, IN ME

MUST BE REPORTED TO THE MICHIDAN POLLUTION EMERGI 1-800-424-8802 24 HOURS PER DAY.

EPA Form 8700-22 (Rev. 4-85)

DO	NOT	WRITE	IN	THIS	SPAC	E
ATT.		DIS.		]	REJ.	

Failure to file is punishable under section 299.548 MCL of Section 10 of Act 136, P.A. 1969

PR 5110 Rev 2/2/86

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1T	WASTE MANIFEST (Continuation Sheet)	V.A.D.04	1962036	01751	2		<i>•</i>	
23. Gene	rator's Name	10	R. LARRY MOCK	c/o		ianifest Docum II <b>0</b> 878 <b>4</b> 2		
	TRANS CIRCUITS	****		22043		Senerator's ID		
	3509 CARLYN SPRII	NGS RD, PAL	GE CHURCH, VA	22041	<u> </u>	Bane		·
24. Trons	porte Compeny Name	hlat	25. US EPA ID Number	on odz		ransporter's ID	615	TIP-A
24 3500	SIETNCHEMIC porter _2_ Company Name	almage	7. US EPA ID Number	DADOO	1	ansporter's ID	MIL-	RIGIA
20. 11011	porter company recinc	System	7			orter's Phone		(Rod)
20 115 5	OT Description (L. I. a. a. a. a. a. a. a. a. a. a. a. a. a.		NL.	29. Con	ainers	30. Total	31. Unit	Ŕ.
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X	Waste Acid Liquid				PP		-	
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S. Additio	nal Descriptions for Materials Lived	Aboye LL	بة قدمت لم	<u>d</u>	T. Hondling	Codes for Wa	stes Listed	Above
•	e) sodium hydrox	Caustic P	otash, monoeti	parolanine		ર∤ ≛	6-JT	
	B. Butyl Carbito.	TO WARRY	-6-Ronoctatio			<b>3</b>	ister Till Kristin Kristin	
7.	Bullonic acid sales	- Dunischen	S. Die Seizer	minut de	ds an	1 5-11	1+-	
32. Specie	ol Handling Instructions and Addition	ol Information		,			~	
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T 33. Transp	porter Acknowledgement of R	eceipt of Materials		<u> </u>	1. C. C		5	Date
A Printer	d/Typed Name		Signature	1 0%	4.14	1/200	Mon	th Doy Yeo
O 34. Transc	eq Mott mo	eceipt of Materials	Tredit	Of fine	ant of	40	3 10	DIUK
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UNIFORM HAZARDOUS	anifest ument No.	22. Page			
(Continuation Sheet) VADO4 9.6 2.03.601	•				ber
3507 Carlow Sorings Rd 4 also 11 a				420	
24 Transporter Company Name 1 1951 @ 25. US EPA ID Number	786	<i></i>			TOUR
26. Transporter Company Name 27. US EPA ID Number		P. State Tran	sporter's 10		
28. US DOT Description (Including Proper Shipping Name, Mazard Class, and ID Number)	7	ainers	<b>3</b> 0. Total	31. Unit Wt/Vol	R. Waste No.
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waste corrosine Land NOS		C =		<u></u>	Door
	00 2		11-	0	0002
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Combathle material NA 1693	601	Dm	5	ے	nool
weste Corrosine Liquid NUS				_	<u> </u>
UNIFORM HAZARDUS  WASTE MANIFEST (Cantinuation Sheet)  23. Generator's Name  Trans Circuits 3507 Carlyn Spr. mps Rd  403 8206405  24. Isonoporter's Phone  25. US EPA ID Number  26. Transporter's Phone  26. Transporter's Phone  27. US EPA ID Number  28. US DOT Description (Included Proper Suppose Name, Neseral Chair, and D Number)  No. Type  Corrosina Makria Unition  Corrosina Mak					
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S. Additional Descriptions for Materials Listed Above	)Clem	T. Handling C	odes for W	C S	Above
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UNIFORM HAZARDOUS 'WASTE MANIFEST (Continuation Sheet)	21. Generator's US E	• • • • • • • • • • • • • • • • • • • •	Manifest Document No.	22. Page	Informat required		shaded areas s no ral law.	at .
23. Generator's Name Towns Circuit			820 640S	L State M	TO8	Numb	2 Dan	
	KILD 2204	1		M. State (	Generator's ID		` ORIGINA (?ad)	
24. Transports Company Name  Eastern Chem	collastes	US EPA ID Number	228867		ransporter's ID orter's Phone	15-	118-95	S
26. Transporter Company Name	المرافع المرافعة	. US EPA ID Number	<u> </u>		ransporter's ID, orter's Phone	NI		
28. US DOT Description (Including Proper Shipping	Nome, Hazard Class, and ID Numb	••r)	29. Cont	Type_	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.	
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X West Acid L	1941d, NOS,	Microcla					0002	
BE COMESIA	19412 NOS	NAITE	0 02	DF	110	G	D0097	
O LOCOTOSIN	muteca	LNAI	60 001	D#	F 55	6	D002	
zi x waste como	sive Liquid	LNUS			- 15	ا مر	n-2 7	
MICRO-BRI	TE, Cleaning	na Solut	ion	DIA	63_	<u>و</u>	0294	
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f BE REPORTED TO THE MICHIDAN POLLUTION EMERGENCY 424-8802 24 HOURS PER DAY.

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Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10-of ...

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A	WASTE MANIFEST	VAD0416	762036	Document in	of	is not law.	requi	red by Fed	erai
П	3. Generator's Name and Mailing Addre	66	mock		A. St	ate Manifest D		nt Number	
	Irans Circuits	PIC	7	22941	-	11 08 784			
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Н	4. Generator's Phone ( ) ) ) 6. Transporter 1 Company Name	1 2 200	US EPA II	D Number	C. St	ate Transporter	's ID	JAKE	1211
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1	11. US DOT Description (including Proper ID NUMB)	<sup>,</sup> Shippi <b>ng Name, Ha</b> ER).	zard Class, and	No.	Туре	Total Quantity	Unit Wt/Vol	I. Waste No.	N/H
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	J. Additional Descriptions for Materials	LISTED ADOVE				ted Above	- TVAS	a,	1
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	b) Alumation	SHOUNT	- bold 5	tectroly	re			c/	<i>!</i>
H	15. Special Handling Instructions and Ad				1	<u> </u>		]d/	
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П	16. GENERATOR'S CERTIFICATION: I hereby declar proper shipping name and are classified, packed	e that the contents of this	consignment are f	ully and accurately	describe	d above by			
	proper shipping name and are classified, packed according to applicable international and national	i, marked, and iabeled, and al government regulations.	d are in all respects	In proper condition	for tran	sport by highway			.
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	Printed/Typed Name  LARRY D, MOCK	•	Signature	£ \	W	[m		Month Day	1
	17. Transporter 1 Acknowledgement of R		1	<del></del>	, , ,			Date	
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	18. Transporter 2 Acknowledgement or R Printed/Typed Name	eceipt of Materials	Signature		£ 18	9 101177		Date Sonth Day	Year
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	19. Discrepancy Indication Space			(2)	4,00	SON, CO	<u> </u>		
					W.	17 LOS	<u>713</u>		
		· .		(33)	7,	W.W.O	A)		
	20. Facility Owner or Operator: Certification tem 19.	of receipt of hazardo	ous materials co	vered by this mi	nifest	except as noted	3 <sup>7</sup> /		
	Printed/Typed Name		Signature	- 40	3 (20)	مرا المراجعة	^	Date fonth Day	Year

	Trans Circuits 3509 Curlyus Fa	VADO41962 703 2041	ARRY MOC	t	M. State S	AME		
	24 Transporter Gompany Name/ CSHPN Chemica 26. Transporter Company Name/	Lete Setup OCD 9		S-11	O. Transpo P. State Tr	ansporter's E orter's Phone ansporter's ID	202	63695
	Sesten Chemical M 28, US DOT Description (Including Proper Shipping N	one, Hozor Closs, and ED Number)	81035	29. Cont.		30. Total Quantity	31. Unit Wt/Vol	636 95 R. Waste No.
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	S. Additional Descriptions for Materials Listed Copper Sulfate to	nk Bottons			T. Hondling	Codes for W	astes Liste	d Above
<b>Y</b>	32. Special Handling Instructions and Addition ONE Drum Co	onthins only n	estdue					
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3-1	Generator's Phone (703) \$20 - 6  Transporter 1 Company Name  Company Nam	Stephens Comments of Comments	Church Church Church Church Church Church USEPA II CO 95 USEPA II CO 95 OHD OF OND OND OF OND	607	775.9 2041 867 3709	8. State D. Trans E. State F. Trans G. State H. Facilit	Manifest Docum  // S 9  Generator's ID  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID  porter's Phone  Transporter's ID	ent Num विश्वास्त्र (d)	
4. () 3. () 7. () 9. ()	Generator's Name and Mailing Address  TONS  Control  Son  Generator's Phone (703) \$20 - 6  Transporter 1 Coppony Name  Control  Transporter 2 Company Name  Control  Designated Facility Name and Site Address  Environ  US DOT Description (Including Proper Shipping)	st Systems 10.  Light Li	Church Church CD 980 DCO 99 US EPA II S OHD OF end ID Number) The service of the	Number 828 Number 103	770 12. Cont	8. State D. Trans E. State F. Trans G. State H. Facilit D	Generator's ID  Fransporter's ID  Transporter's Phone  Transporter's Phone  Facility's ID  Ty's Phone  13.  Total	78161N 6d) 2021 203	1823
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11.	US DOT Description (Including Proper Shippi	one 1400 AH 4573 L ng Nome, Hazard Class, Stible L Light L	OHD OR and ID Number)	33 :	12. Cont	D Spiners	73 S	Unit	t.
o.		stible to	end ID Number)	705	12. Cont		Total	Unit	t.
o.		stible to	MA199	<del>10\$</del>			Total	Unit	t. Waste No.
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O R	X Comsive	materia		60	<b>20</b> :2	DM	400	P	D002
d.	waste Corrosine		OISPWOL					-	
	Conside mu	terms u	n2997	2	00.1	DM	200	P	P030
11	Items C d D and Chemicals S Special Handling Instructions and Additional All weight are		perkant T	je L wen	tory	6)7 6)7 0)7			:. 
	GENERATOR'S CERTIFICATION: I hereby deci- marked, and tabeled, and are in all respects in pro- Unless I am a small quantity generator who has been that I have a program in place to reduce the volum treatment, storage, or disposal currently available	per condition for transport l exempted by statute or reg e and toxicity of waste gen	by highway according gulation from the duty herated to the degree the present and futh	to applicable to make a war I have determ	internations ste minimizat nined to be e	ol and nation ion certification iconomicali	onal governmental tion under Section y practicable and I	regulation 3002(b) of have sele	s. RCRA, I also certify cted the method of
	Printed/Typed Name LARRY D	MOCK	Signature	5	, ),	Ma	<u></u>	<u>~</u>	611186
	Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	f Materials	Signature /			0	• /	Mo	nth Day Year
N C	Transporter 2 Acknowledgement of Receipt of	H Materials	all	let	Rid	17	4	0	61.186
R I	Printed/Typed Name	······································	Signature	10/11/27	?},			, Mo	nth Day Year
	Discrepancy Indication Space		STEW STEW	NOV 1986 ATMENED	(5)617187				
20. I	Facility Owner or Operator: Certification of re	ceipt of hazardous mat	erials covered by th	is Monight	except of n	oted in Ite	m 19.		
Ĭ.,	Printed/Typed Name		Signosure	9252,425	L. Close			1 .	oth Day Year

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1	UNIFORM HAZARDOUS WASTE MANIFEST	21. Generator's US EF	Doc	Manifest cument No.	22. Pag	informa required	tion in th	e shaded areas is no eral law.
23	- (Continuation Sheet)	VA.DOY.I.	9.6.203601 Muck 7038	.1.5.5 220	L State	Manifest Docum	ent Num	ber
	Trans Circuits 3509 Carlow Sprin	A 1	-11. 11 1.1	2405	M. Stots	Generator's ID	OR (i	IGINAL Red)
24	. Tronsperter		US EPA ID Number	LANG.	_	Transporter's ID	<del></del>	
26	Transporter Company Name	Sh Jany	US EPA ID Number	362	12.0	porter's Phone Transporter's ID	_	636 95
28	US DOT Description (Including Proper Shipping Nom	Margari Clar and El Number	DCD 9810	29. Cont		porter's Phone 30. Total	31. Unit	R. R.
a.	HM	<del></del>	e NOS	No	Туре	Quantity	W1/Vol	Waste No.
	Now regula	ted was		001	om	200	P	none
]  b.	x conbustible		NOS NA1493	005	Dm	1000	p	Doo/
C.	x waste utitaline	e Liquid	2005 NA1719	ĎOI	m	200	P	0002
G d. E N E	x waste deid Lie	jurd NOS	NAI760	001	DM	200	P	D002
0	Suste oxide	NOS EXI	dizer.					
ř.	Y Waste Sodium	Nitrate	oxidizer	02	DE	150	P	D00/
9.	x waste oxiditer	Corrosive	- Light NOS	<b>6</b> 21	On	200	ρ	1000/
h.	DATE	~ <del>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ </del>	2086	418373		200		
i ·			6 NO CENTER	GENER	24.24.2	-		
-	All Ikus except pakaged chamica	Is See A	Heled Ing	entar	7. Handli	ng Codes for We	ostes Liste  B  B	ed Above
32.	Special Mandling Instructions and Additional Weights and	Information  Appro	×					
	Transporter Acknowledgement of Rec Printed/Typed Name A/BERT SMT7		ignature Older	· Ga	iH	/		Date Nonth Day Year D.6   1.186
_	Transporter Acknowledgement of Rec Printed/Typed Name		iignature					Date Ionth Day Year

	UNIFORM HAZARDOUS	1. Generator's U		Document	No.	not rea	ition in the shaded a uired by Federal law.	
	WASTE MANIFEST		1.9.6.2.0.3.6	510.1.8.	0:31	ate Manifest Docu	ant Number	
3.	Generator's Name and Mailing Address	MR. LARR	Y MOCK c/o		ام عا	01863	ment Nomber	
	TRANSCIRCUITS	#111C CW	,		8 50	rte Generator's ID		
4.	3509 CARLYN SPRINGS RD Generator's Phone (703) 820-6		KCH, VA 22041			ame		
	Transporter 1 Company Name	103	6. US EPA ID N	iumber		ate Transporter's	ALT_YUZ	M
<b>J</b> .	EASTERN CHEMICAL WASTE S	VSTEMS	D C.D .9 .B .O B	• •	- <del>-</del>	ansporter's Phone	202 636-95	555
7.	Transporter 2 Company Name	IDILMS	B. US EPA ID N			ate Transporter's I		
• •	EASTERN CHEMICAL WASTE	SYSTEMS	D. C.D .9 .B .1 .0	.3 .5 .5 .	0 .4 F. Tre	insporter's Phone	202 636-9	555
9.	Designated Facility Name and Site Address		10. US EPA ID N	umber	G. St	ate Facility's ID	-	
	ENVIRONMENTAL ENTERPRISE	s INC.				1 11 11 11		
	4650 SPRING GROVE AVENUE			•	H. Fo	cility's Phone		
	CINCINNATI, OH 45232		O. H. D. D. B. 3. 3	3 . 7 . 7 . 0 .	1.0	513	5 4 1 - 1 8	2 :
11	. US DOT Description (Including Proper Shippi	ng Name, Hazard Cla	ss, and ID Number) .	12	. Containers	13. Total	14. L	
	HM .			!	No. Type	Quantity	W1/Vol Waste	No.
a.								
	Waste Nitric Acid,	fuming			).   DM	- 50	G D001	
_	Oxidizer UN2032				J. I DH	1	G . DOUL	
Ь.			· · · · · · · · · · · · · · · · · · ·		}		100	
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C.		S. S.	التجاب و المراجع	- 7	1			
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d.		500	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			:		
۵.		To the state of th	8 75 B					* .
		10 S						
J.	Additional Descriptions for Materials Listed Ab	14 . O J . evo	in the second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	K Ho	ndling Codes for	Wastes Listed Above	,
		XS 5 C	5 115 1					
2 ·								
15.	. Special Handling Instructions and Additional	Information						
				•				
							•	. 4
				4 35-			•	
16.	. GENERATOR'S CERTIFICATION: I hereby deci	ore that the contents of	this consignment are fully an	d occurately de	scribed above I	y proper shipping n	ome and are dassified, p	ocked
	marked, and labeled, and are in all respects in pro	per condition for transp	ort by highway according to	<del>applicable inte</del>	rnational and s	igtional government	ol regulations.	
	Unless I am a small quantity generator who has been "that I have a program in place to reduce the volum							
	treatment, storage, or disposal currently evoilable	•	-					
	Printed/Typed Name		Signatuse				Month Day	Yeo
.4	Samuel Robil	لمده	dan	ار مید	Pen		0.703	NX
17.	Transporter 1 Acknowledgement of Receipt of	Materials				7		~
_	Printed/Typed Name		Signature	V.1	,7		Month Doy	ريس
Ū	AMES KURT OV	EKBERGE	Rane	SKU	AT LA	reverse	10103	M
18.	. Transporter 2 Acknowledgement of Receipt of	Materials						_
	Printed/Typed Name		Signature	:		1 2 5 1	Month Day	Year
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	Discrepancy Indication Space							
19.							J	
19.					•	1.0		
19.					•		•	
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	Facility Owner or Operator: Certification of re	ceipt of hazardous r	naterials covered by this	manifest exce	pt as noted in	19.		٠

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